GROUND-WATER HYDROGRAPHS, 1970-87, AND WATER-LEVEL DATA, 1986-87, FOR THE NORTHERN HIGH PLAINS OF COLORADO

By Raymond L. Reed

U.S. GEOLOGICAL SURVEY

Open-File Report 88-178

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SOUTHERN HIGH PLAINS GROUND-WATER MANAGEMENT DISTRICTS

Denver, Colorado
1988

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CONVERSION FACTORS

Inch-pound units in this report may be converted to metric units (International System) by using the following conversion factors:

Multiply inch-pound unit	*By*	*To obtain metric unit*
foot	0.3048	meter
mile	1.609	kilometer
square mile (mi^2)	2.590	square kilometer

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

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ABSTRACT

During the winter of 1986-87, water-level measurements were made in 637 of the 641 wells that currently (1987) are monitored by the U.S. Geological Survey on the northern High Plains of Colorado. Hydrographs of water-level measurements for 1970-87 are included for each of these wells. Water-level measurements for the winter of 1986-87 are listed in a table; this table also lists the local number, geohydrologic unit(s), depth, and altitude of land surface of each of the 641 wells.

INTRODUCTION

The northern High Plains of Colorado is an area of about 9,500 mi^2 in the eastern part of the State (fig. 1). The boundaries of the High Plains of Colorado are the State line on the east and the limit of the Ogallala Formation of late Tertiary age on the north, west, and south. The Ogallala Formation is an unconsolidated or partly consolidated deposit of gravel, sand, silt, and clay and is the major aquifer in the northern High Plains (Borman and Meredith, 1983).

The ground-water level in much of the High Plains has been declining because pumping for irrigation is removing water from storage (Borman, 1983). Knowledge of the magnitude and extent of water-level change is necessary for management of the ground-water resource.

Reports about water levels in the northern High Plains of Colorado have been published periodically since the late 1950's. During the late 1950's and the early 1960's, the U.S. Geological Survey investigated ground-water resources in the northern High Plains. Data from these investigations were published initially as data releases accompanying U.S. Geological Survey water-supply papers. During the late 1960's and the early 1970's, water-level data for 5-year periods were published in basic-data releases by the Colorado Water Conservation Board. From the late 1970's until 1983, water-level information for the preceding 5 years was published annually as U.S. Geological Survey open-file reports. Seventeen years of water-level data were published by Reed (1987). This report contains water-level information for an 18-year period and includes much of the data from these previous reports.

Water-level data were obtained during water year 1987 (October 1, 1986, through September 30, 1987) in the northern High Plains of Colorado as part of

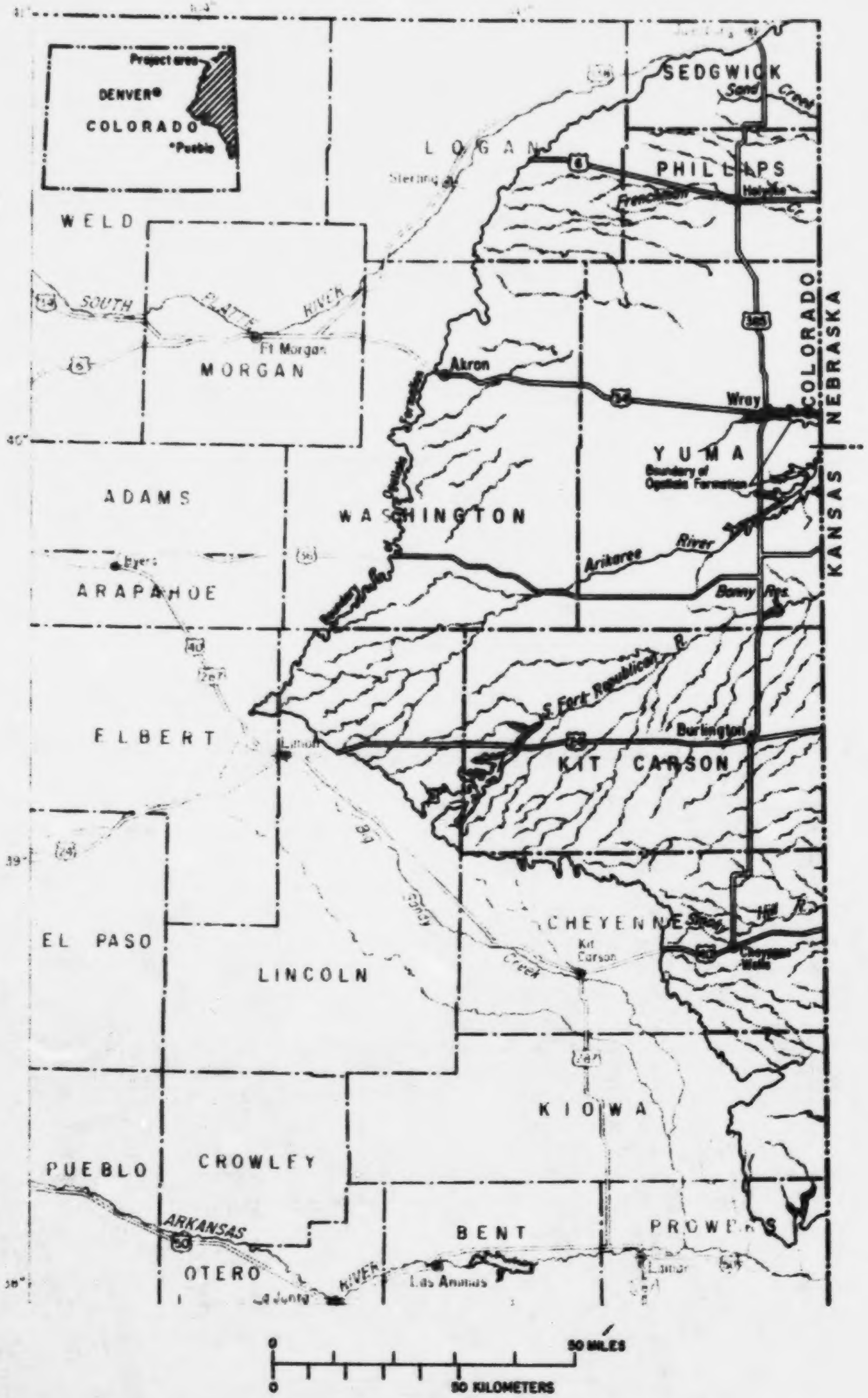
Project area
DENVER
COLORADO
Pueblo
SEDGWICK
Sand Creek
LOGAN
Sterling
PHILLIPS
Frenchman
Holyoke
WELD
SOUTH PLATTE RIVER
Ft Morgan
MORGAN
Akron
Wray
COLORADO
NEBRASKA
YUMA
Boundary of Ogallala Formation
ADAMS
WASHINGTON
Arikaree River
Bonny Res.
KANSAS
Byers
ARAPAHOE
S Fork Republican R
ELBERT
Limon
Burlington
KIT CARSON
CHEYENNE
Cheyenne Wells
Kit Carson
Creek
EL PASO
LINCOLN
KIOWA
PUEBLO
CROWLEY
ARKANSAS
RIVER
BENT
PROWERS
OTERO
La Junta
Las Animas
Lamar
40°
39°
38°
0
50 MILES
0
50 KILOMETERS

Figure 1.--Location of northern High Plains of Colorado.

a cooperative agreement between the U.S. Geological Survey and the Colorado Geological Survey of the Colorado Department of Natural Resources. Field-data collection was done by personnel of the Frenchman, Central Yuma, Sand Hills, and Marks Butte Ground Water Management Districts and the U.S. Geological Survey. Data from the field survey were added to the large, historical ground-water data base maintained in computers of the U.S. Geological Survey. Prior to 1986, ground-water information was obtained in cooperation with various State and local agencies and entities and also by several Federal programs. Organizations that helped obtain this ground-water information include: Colorado Geological Survey; Colorado Division of Water Resources, Office of the State Engineer; Colorado State University; Colorado Water Conservation Board; Frenchman Ground Water Management District; Central Yuma Ground Water Management District; Sand Hills Ground Water Management District; Marks Butte Ground Water Management District; Arikaree Ground Water Management District; Eastern Cheyenne Ground Water Management District; Plains Ground Water Management District; Washington-Yuma Ground Water Management District; and Southern High Plains Ground Water Management District.

SYSTEM OF NUMBERING WELLS

Well locations in this report are given local well numbers, based on the U.S. Bureau of Land Management system of land subdivision, and show the location of the well by quadrant, township, range, section, and position within the section (fig. 2). The first letter "S" preceding the location number indicates that the well is located in the area governed by the Sixth Principal Meridian. The second letter indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast.

The first three digits of the number indicate the township, the next three digits the range, and the last two digits the section in which the well is located. The letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counterclockwise direction, beginning with A in the northeast quarter section and within each quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added in the order in which the data from the wells or springs were collected. For readers who wish to locate the wells, the townships and ranges are shown on plate 1.

Another number, station-identification number, is assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells within a 1-second grid. In the rare instance where the initial latitude and longitude was in error and has been redetermined, the station will retain its original identification number.

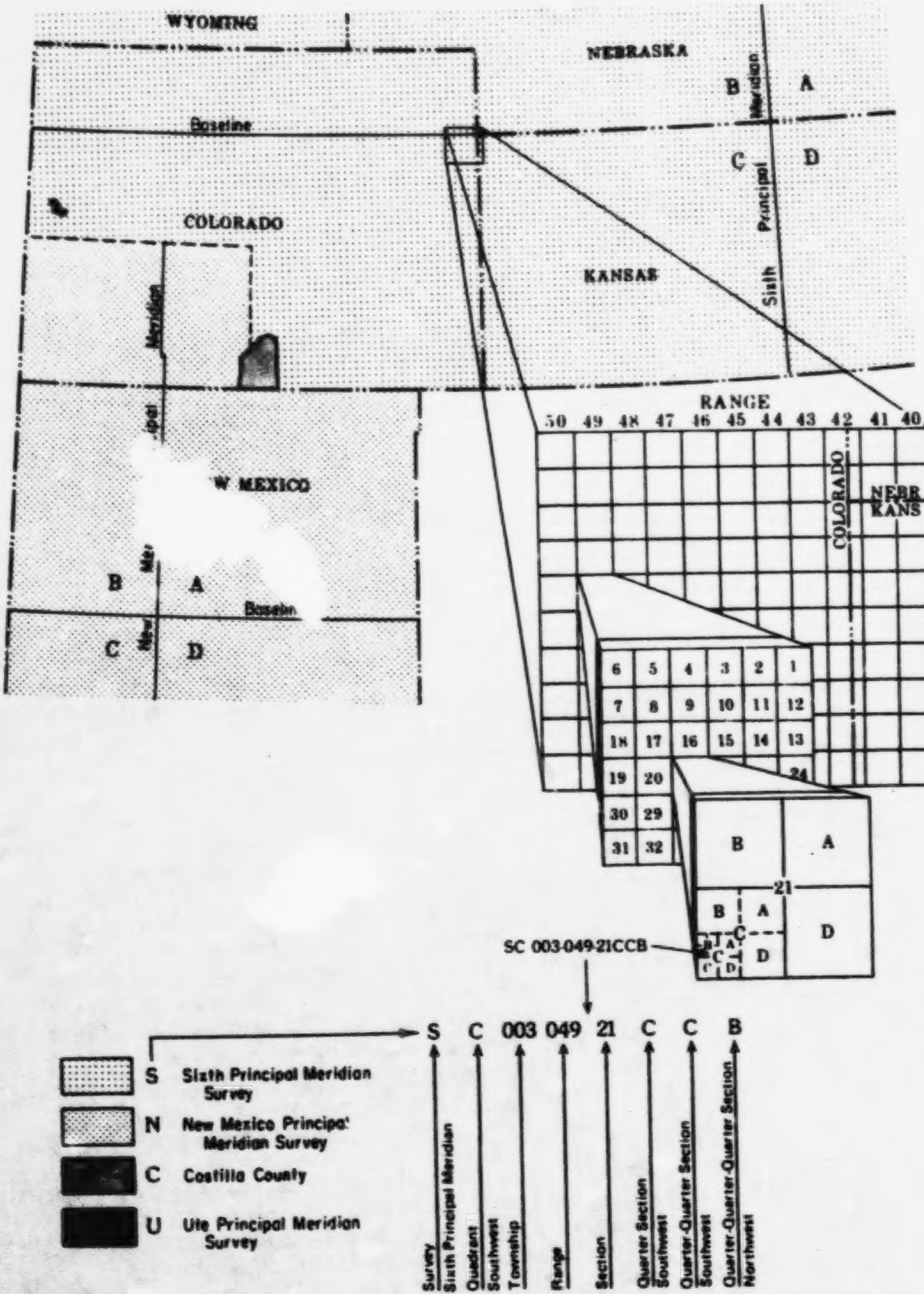
WYOMING
NEBRASKA
B
A
Meridian
Baseline
C
D
Principal
COLORADO
KANSAS
Sixth
Meridian
W MEXICO
B
A
Baseline
C
D
RANGE
50 49 48 47 46 45 44 43 42 41 40
2
1N
1S
2
3
4
5
6
7
8
TOWNSHIP
COLORADO
NEBR
KANS
6 5 4 3 2 1
7 8 9 10 11 12
18 17 16 15 14 13
19 20 24
30 29
31 32
B
A
21
B
A
C
D
D
SC 003-049-21CCB
S C 003 049 21 C C B
Survey Sixth Principal Meridian
Quadrant Southwest
Township
Range
Section
Quarter Section Southwest
Quarter-Quarter Section Southwest
Quarter-Quarter-Quarter Section Northwest
S Sixth Principal Meridian Survey
N New Mexico Principal Meridian Survey
C Costilla County
U Ute Principal Meridian Survey

Figure 2.--Well-numbering system.

DESCRIPTION OF DATA

For a number of years, the U.S. Geological Survey and various State and local agencies have cooperated in the measurement of water levels in many of the wells that are located in the northern High Plains of Colorado. Since its inception, this network of wells has changed almost annually. Because some wells simply are more difficult to measure than others, their measurement may be discontinued when consistently accurate water levels are not obtained. Wells also are dropped from the measurement list if measurements cannot be obtained. Some reasons for not being able to measure the water levels are: access to the well is obstructed; the well is destroyed; the water level has dropped below the bottom of the well; or a well owner has withdrawn permission to measure the well. Wells may be added to the network, as resources permit, to provide needed additional information.

The current (1987) water-level monitoring network consists of 641 wells; 637 were measured during the winter of 1986-87. Most of these wells are used for irrigation, but several livestock wells and U.S. Government observation wells also are included, especially in areas where there is minimal irrigation.

The data in this report are arranged first by county; the counties are listed alphabetically. The wells in each county then are arranged by local well number, in ascending order.

Hydrographs for each of the 641 observation wells in the northern High Plains of Colorado are shown in figure 3 in the "Hydrologic Data" section of this report. A hydrograph is a diagram representing successive water-level measurements throughout a period of time. The hydrographs in figure 3 include measurements made during 1970 through the winter of 1986-87. The line connecting the measurements on the hydrograph does not necessarily indicate the actual water level between measurements, but may indicate a trend in the water level. The actual water level between measurements will fluctuate depending on the drawdown of the water table caused by pumpage and on recharge that occurs.

Descriptive information for each well and water-level measurements made during the winter of 1986-87 are listed in table 1. For various reasons, water levels were not obtained during this period for four of the wells, and more than one water level was obtained for other wells.

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_____1983, Water-level records for the northern High Plains of Colorado, 1979-83: U.S. Geological Survey Open-File Report 83-253, 34 p.

Boettcher, A.J., Hofstra, W.E., and Major, T.J., 1969, Water-level records for the northern High Plains of Colorado: Denver, Colorado Water Conservation Board Ground Water Basic-Data Release No. 20, 189 p.

Borman, R.G., 1978, Water-level records for the northern High Plains of Colorado, 1974-78: U.S. Geological Survey Open-File Report 78-499, 31 p.

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_____1983, Geology, altitude, and depth of the bedrock surface beneath the Ogallala Formation in the northern High Plains of Colorado: U.S. Geological Survey Hydrologic Investigations Atlas HA-669, scale 1:500,000.

Hofstra, W.E., and Luckey, R.R., 1972, Water-level records for the northern High Plains of Colorado, 1968-72: Denver, Colorado Water Conservation Board Water Resources Basic-Data Release No. 24, 37 p.

_____1973, Water-level records, 1969-73, and hydrogeologic data for the northern High Plains of Colorado: Denver, Colorado Water Conservation Board Water Resources Basic-Data Release No. 28, 52 p.

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Major, T.J., and Vaught, K.D., 1977, Water-level records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado 1973-77: U.S. Geological Survey Open-File Report 77-461, 19 p.

Reed, R.L., 1987, Water-level records for the northern High Plains of Colorado, 1970-86: U.S. Geological Survey Open-File Report 87-26, 314 p.

HYDROLOGIC DATA

Hydrographs of water levels for wells in the northern High Plains of Colorado are shown in figure 3. The following information is provided to define terms used in the figure.

County name: Name of the Colorado county where the well or wells are located, for example: CHEYENNE COUNTY.

Local well number: Indicates a number (based on latitude and longitude) used to identify the location of the well, for example: SC01204310ADA. See "System of Numbering Wells," section.

Station-identification number: Indicates a number (based on latitude and longitude) used to identify a well, for example: 390147102121600. See "System of Numbering Wells" section.

y-axis: Water level, in feet below land surface, and altitude of water level, in feet above sea level.

x-axis: Time in years, from 1970 through 1987 - calendar year.

□ : Water level at the time of measurement, line between squares indicates the trend in static water level between measurements.

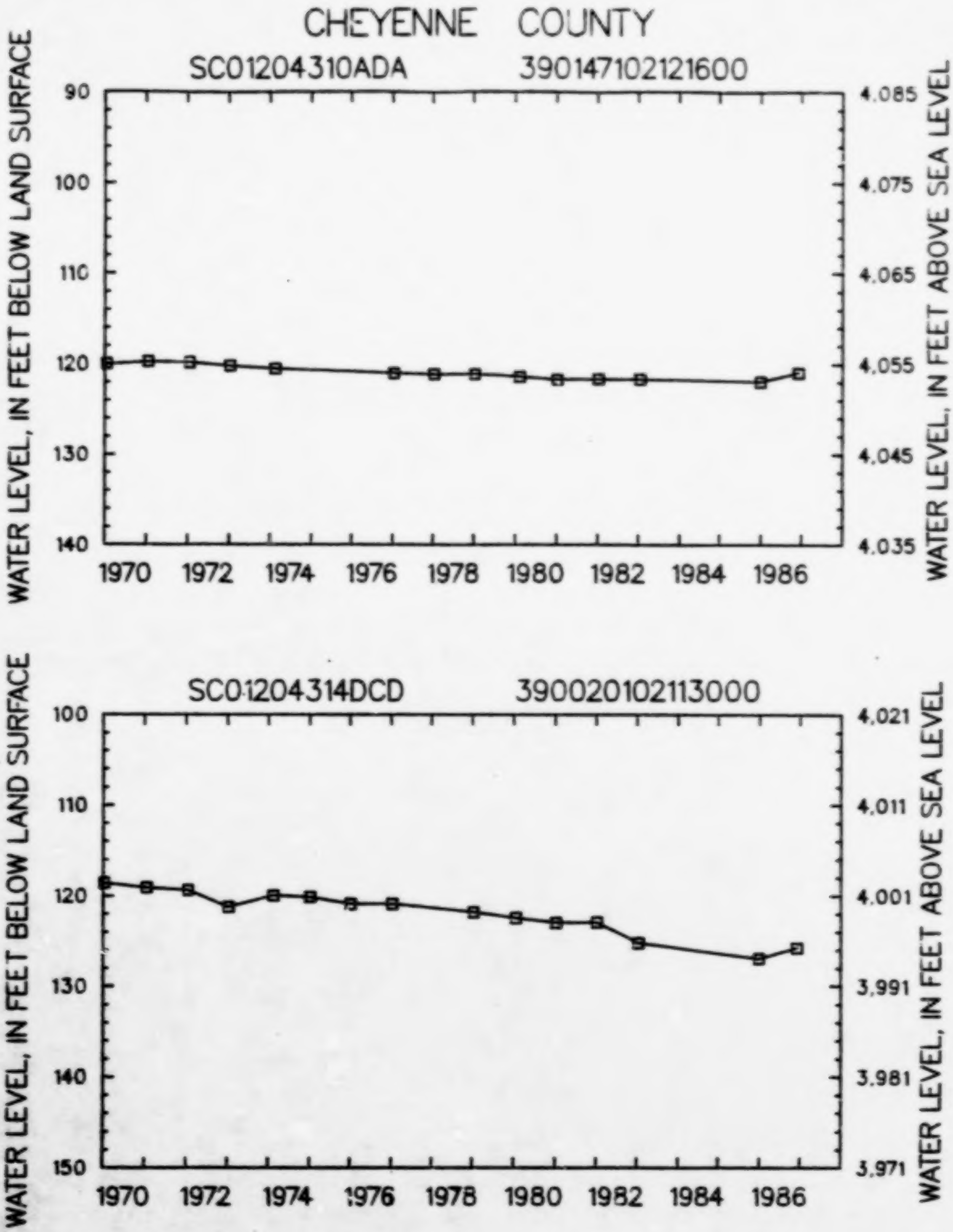


Figure 3.—Water levels for wells in the northern High Plains of Colorado (1970–87).

CHEYENNE COUNTY

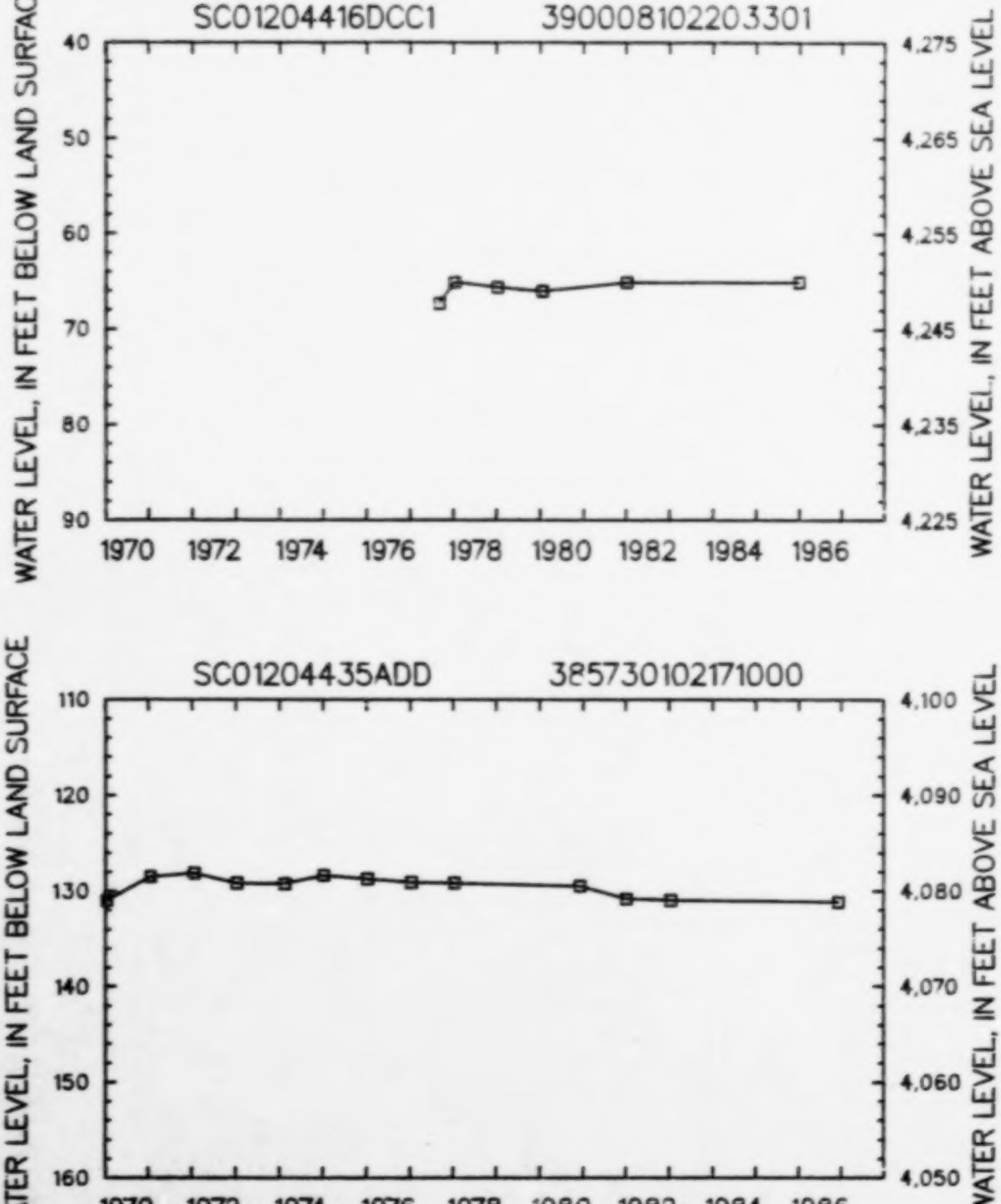


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

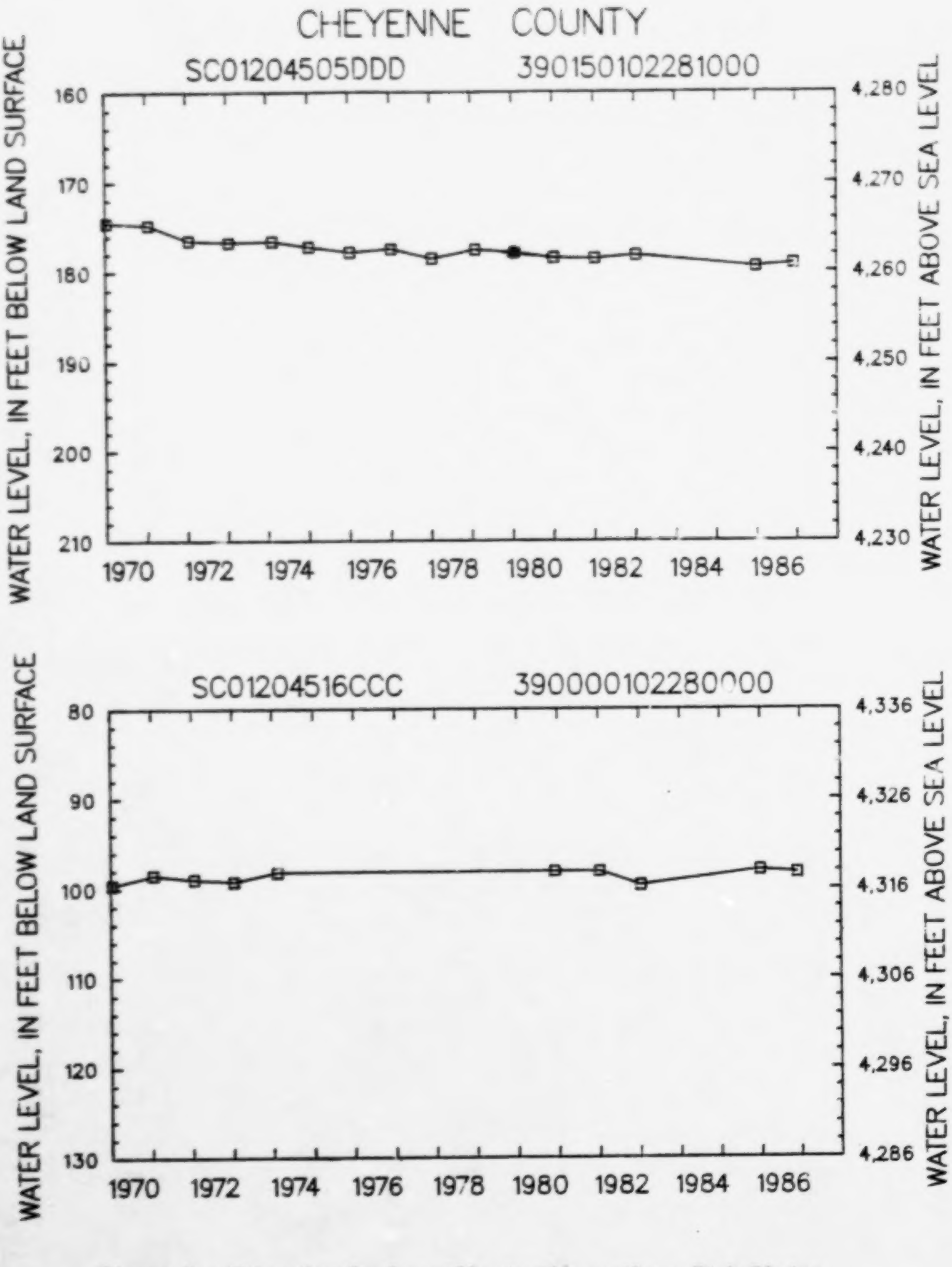


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

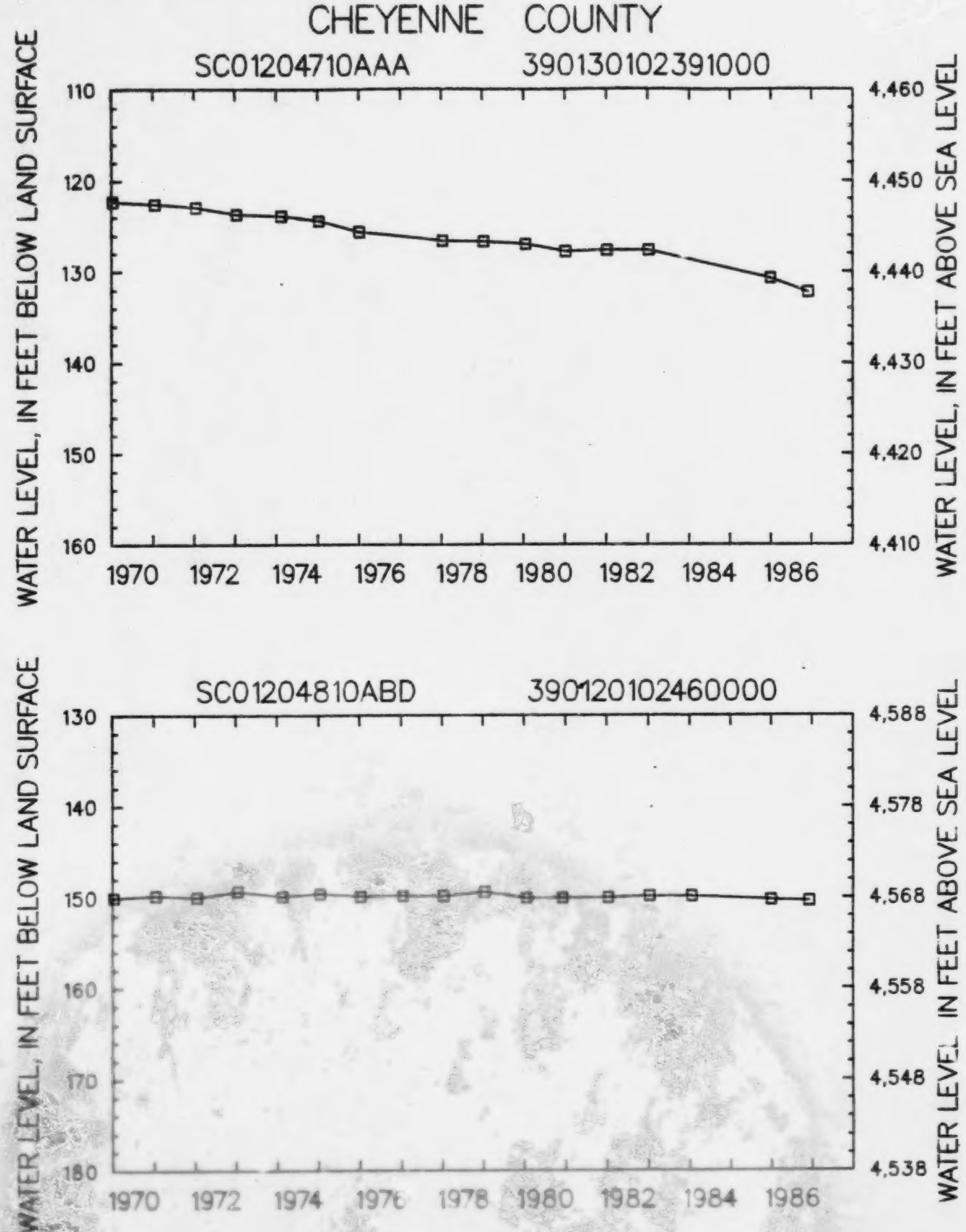


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

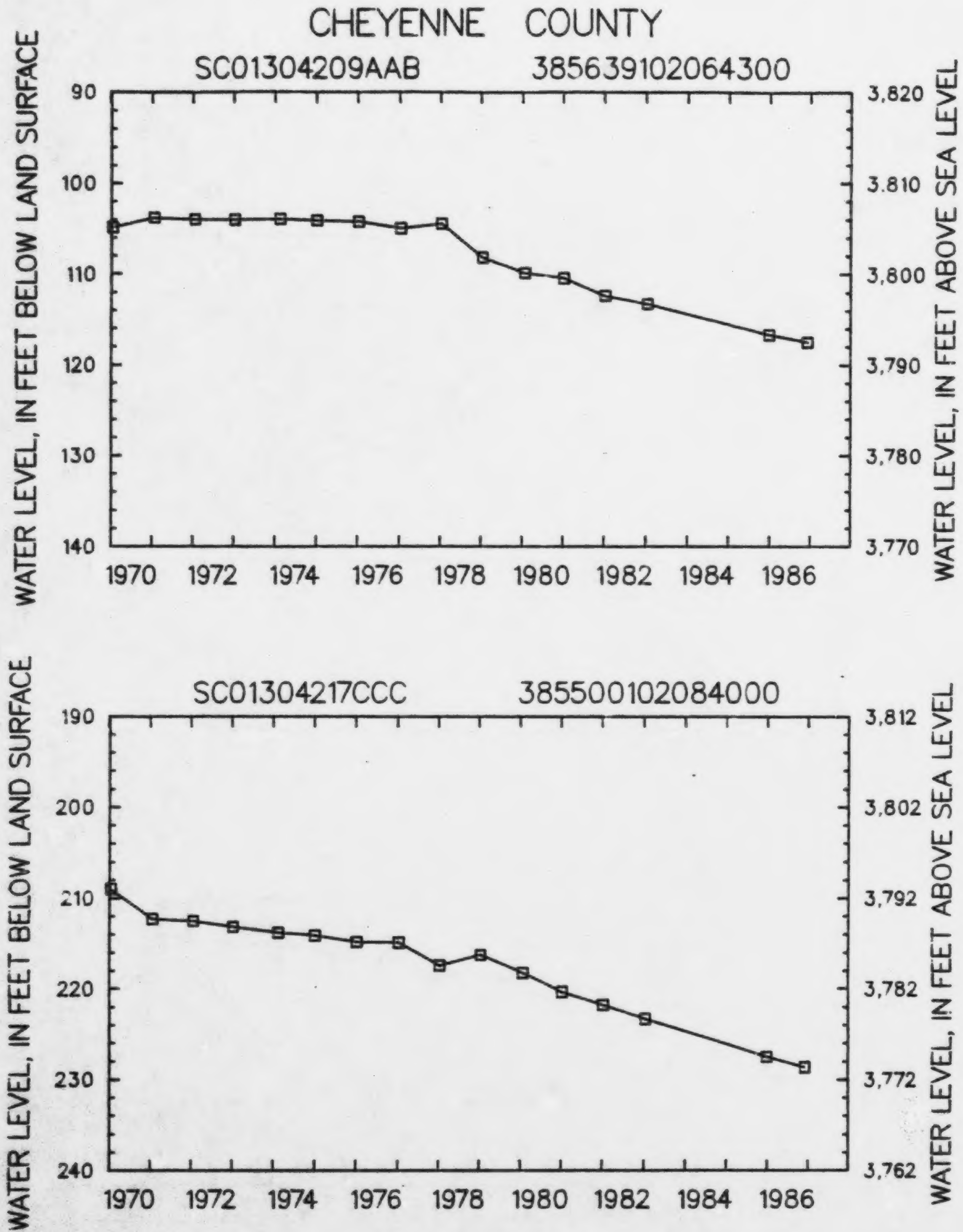


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

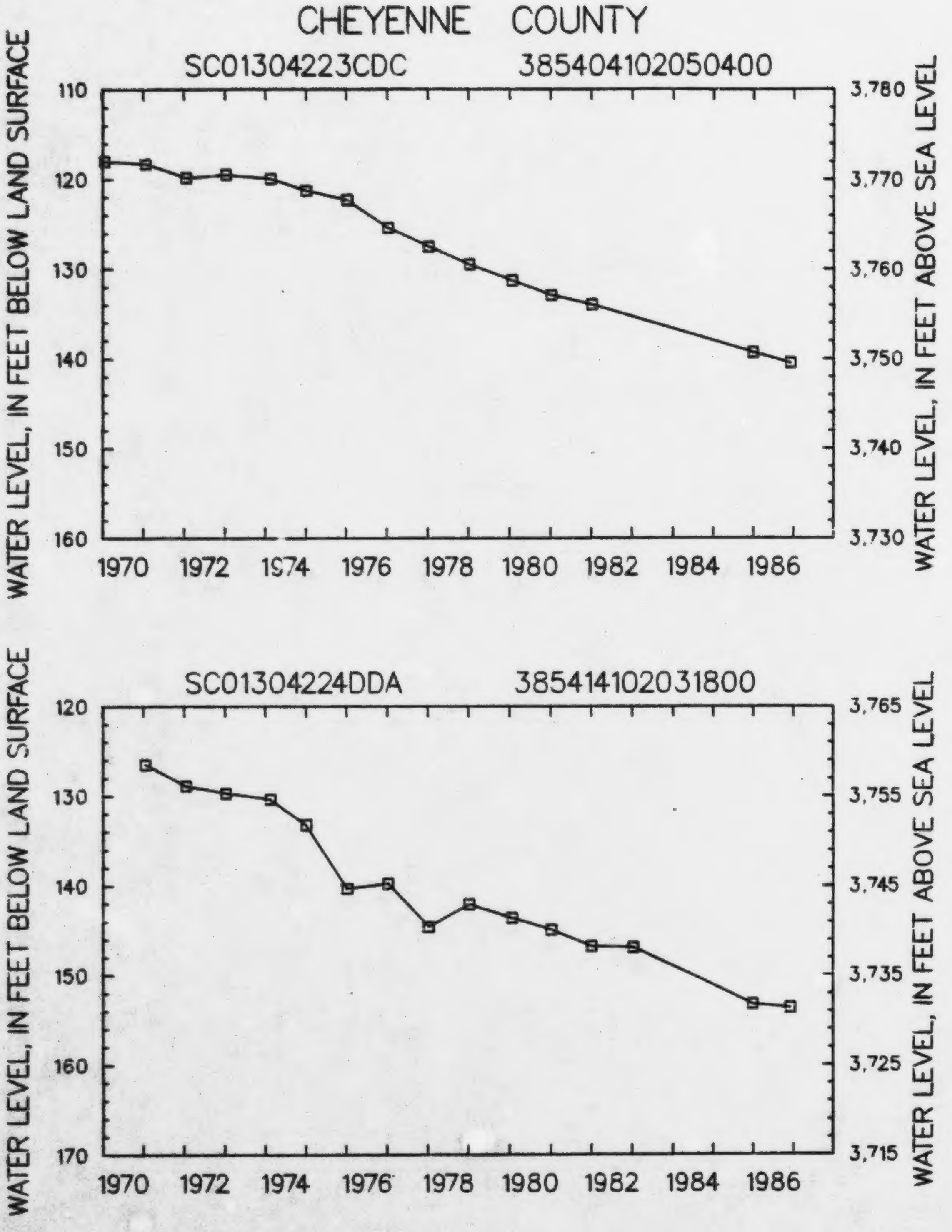
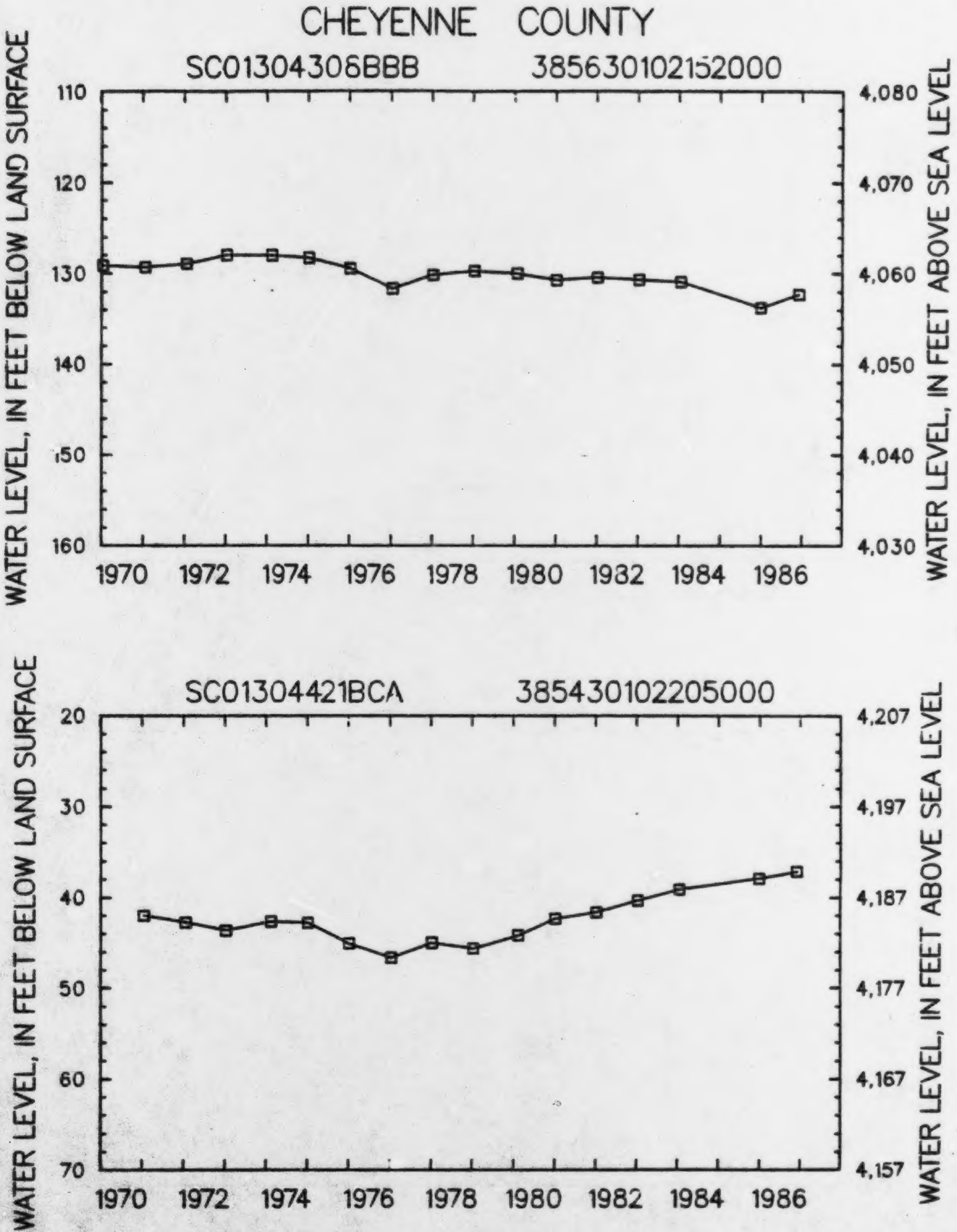


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



CHEYENNE COUNTY

SC01304306BBB 385630102152000

SC01304421BCA 385430102205000

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

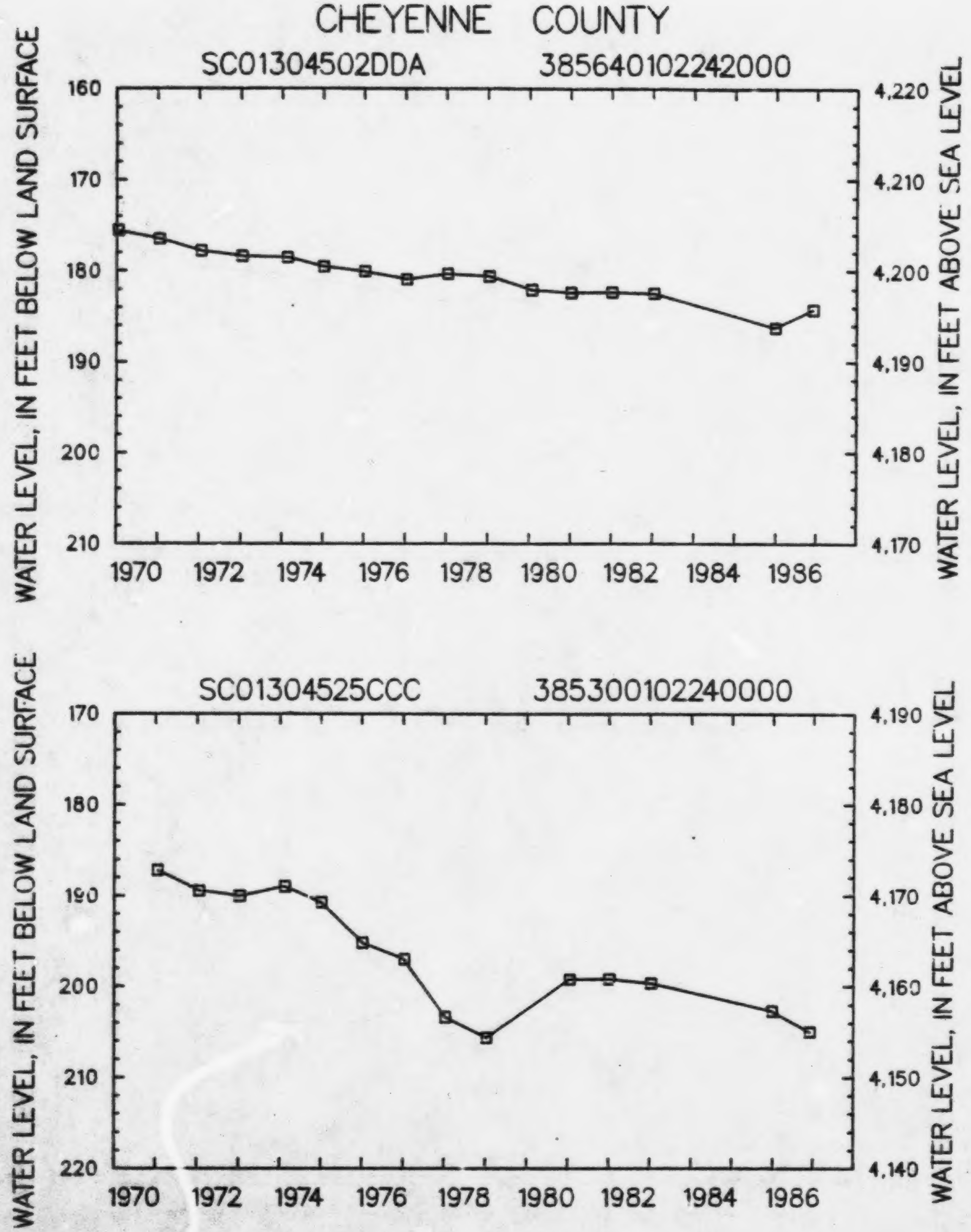


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

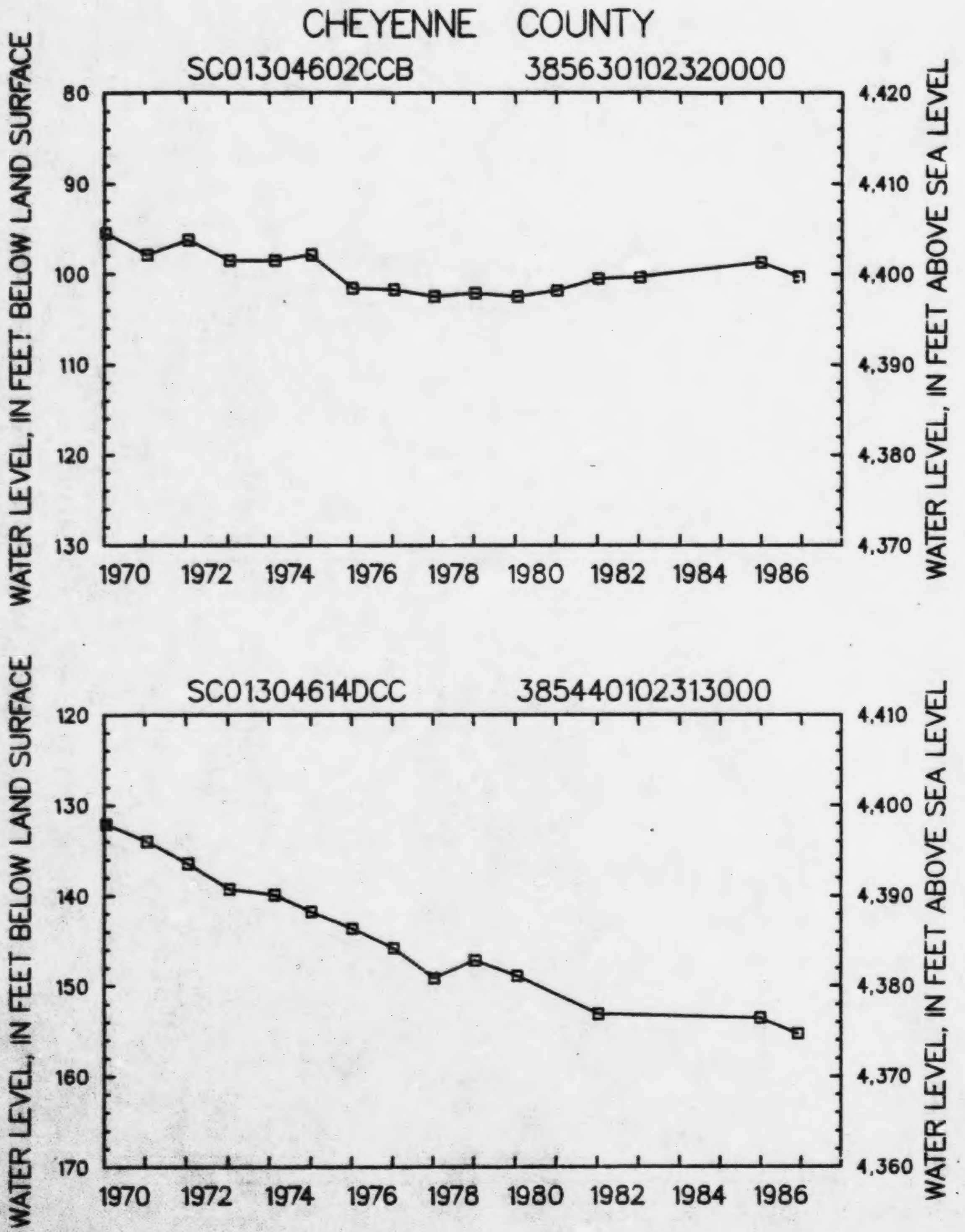
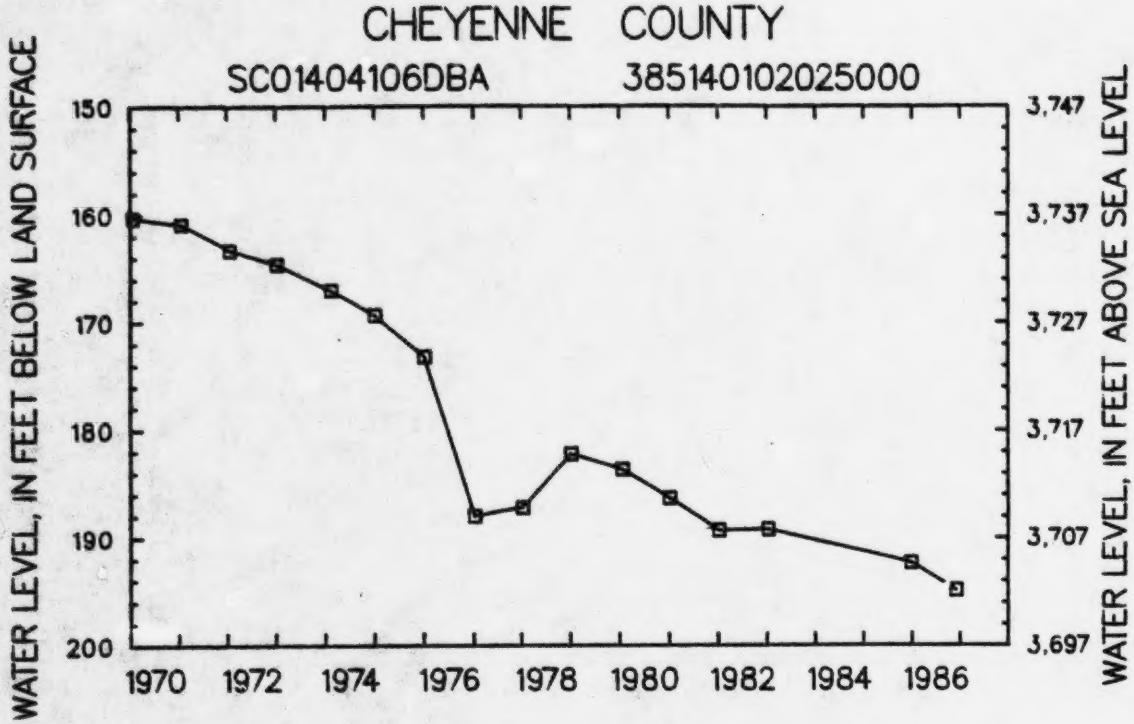
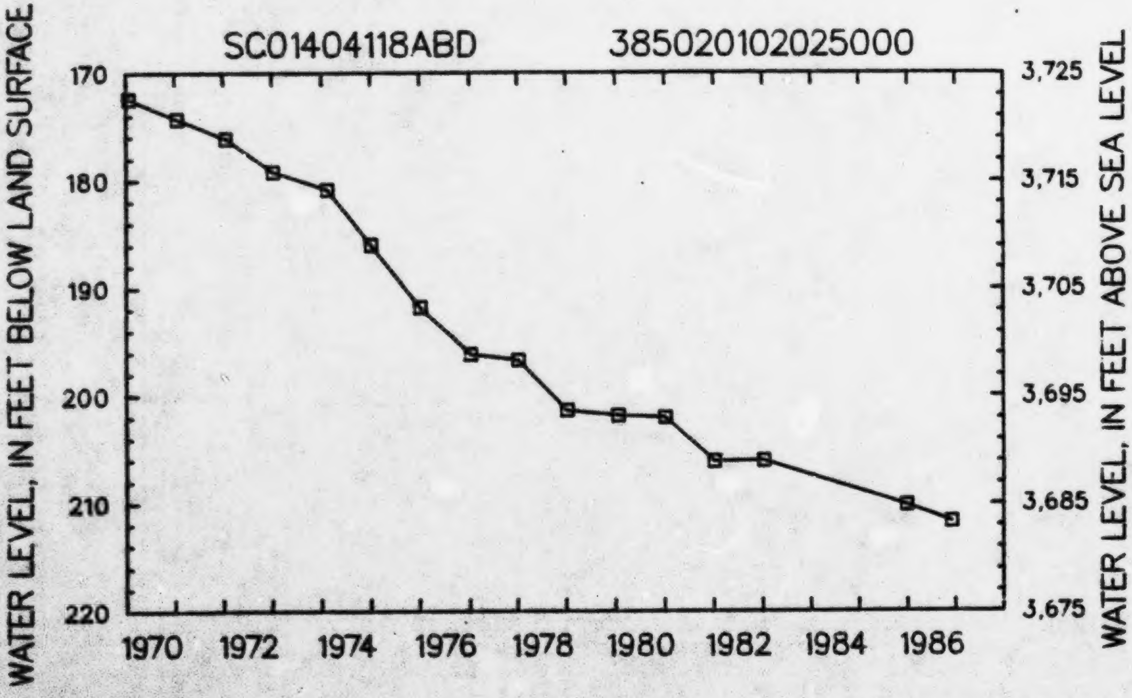


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.





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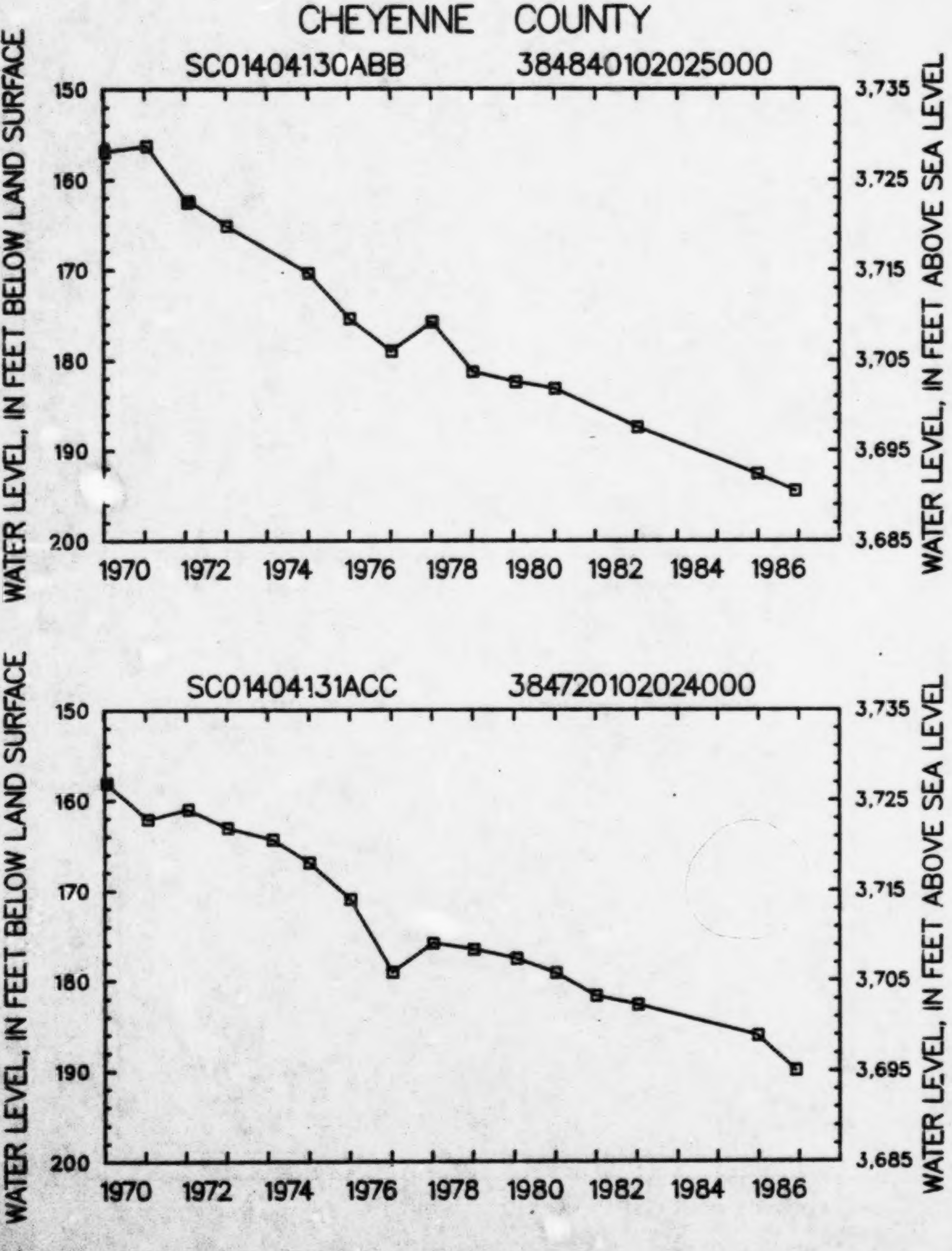

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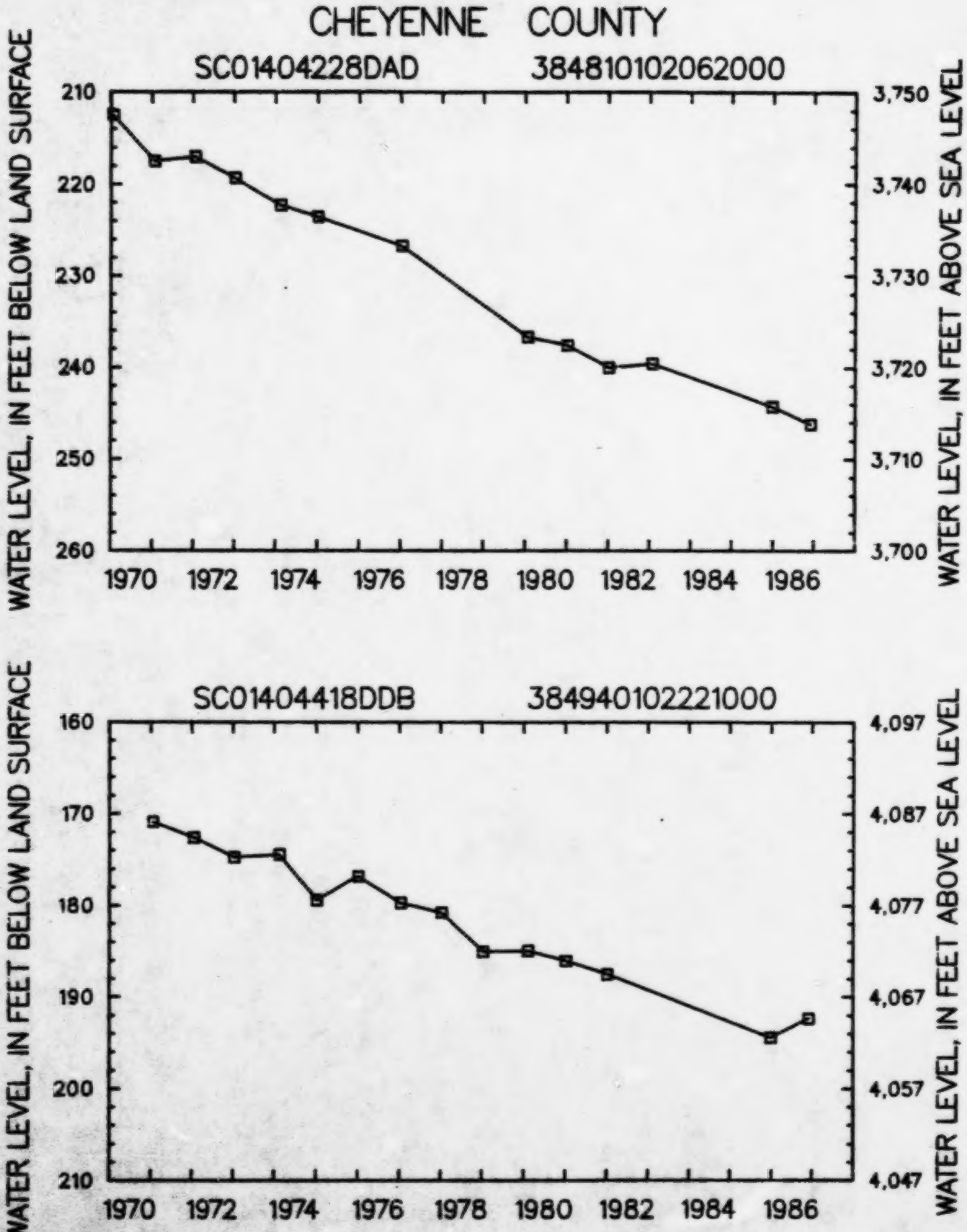


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

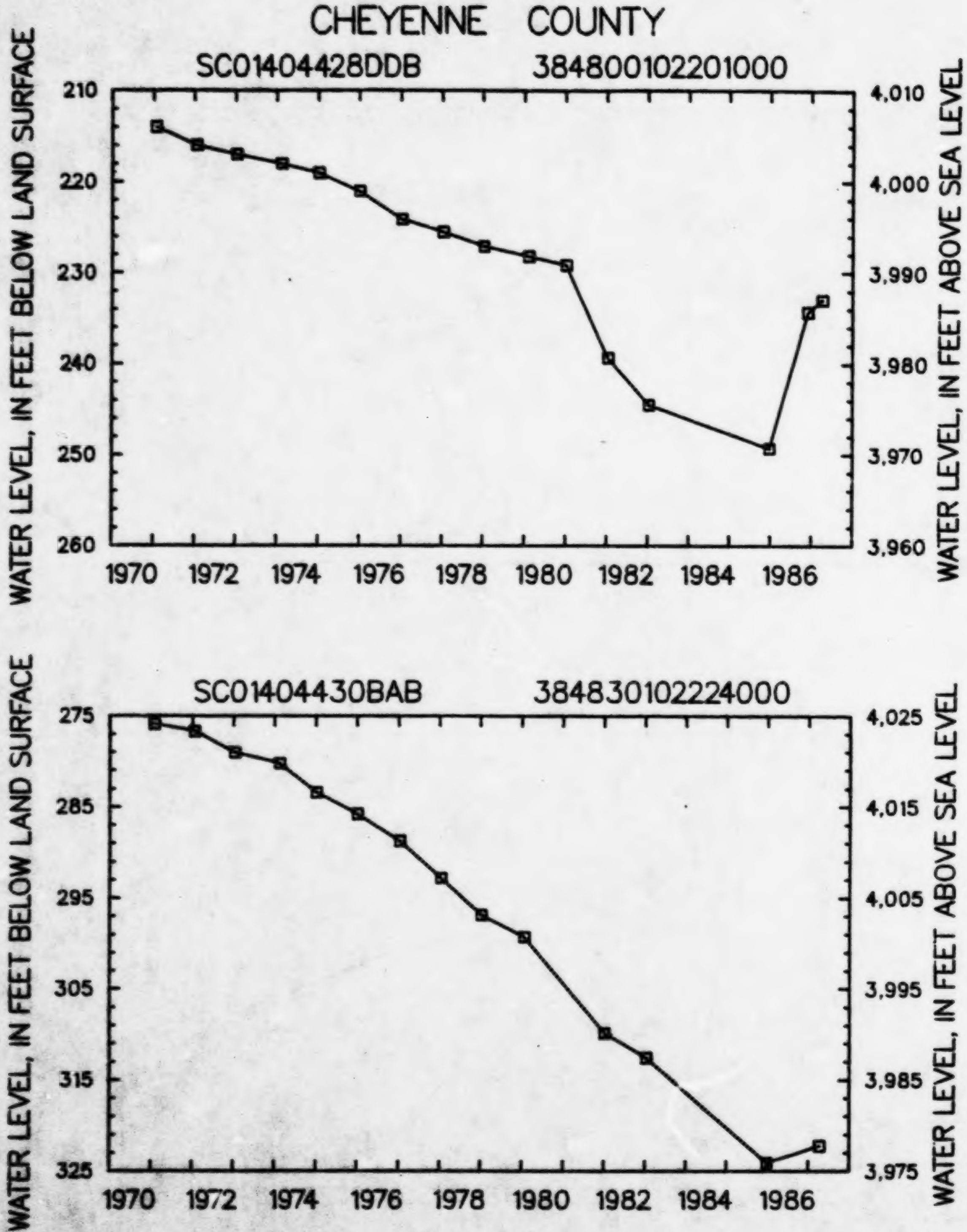
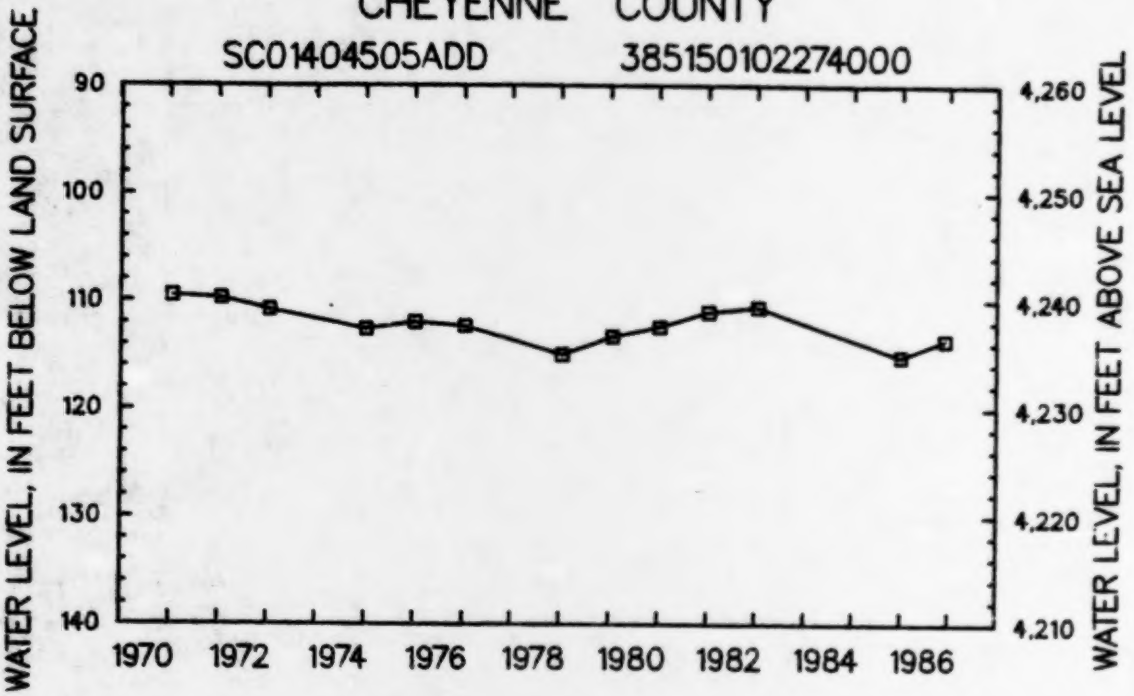


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

CHEYENNE COUNTY



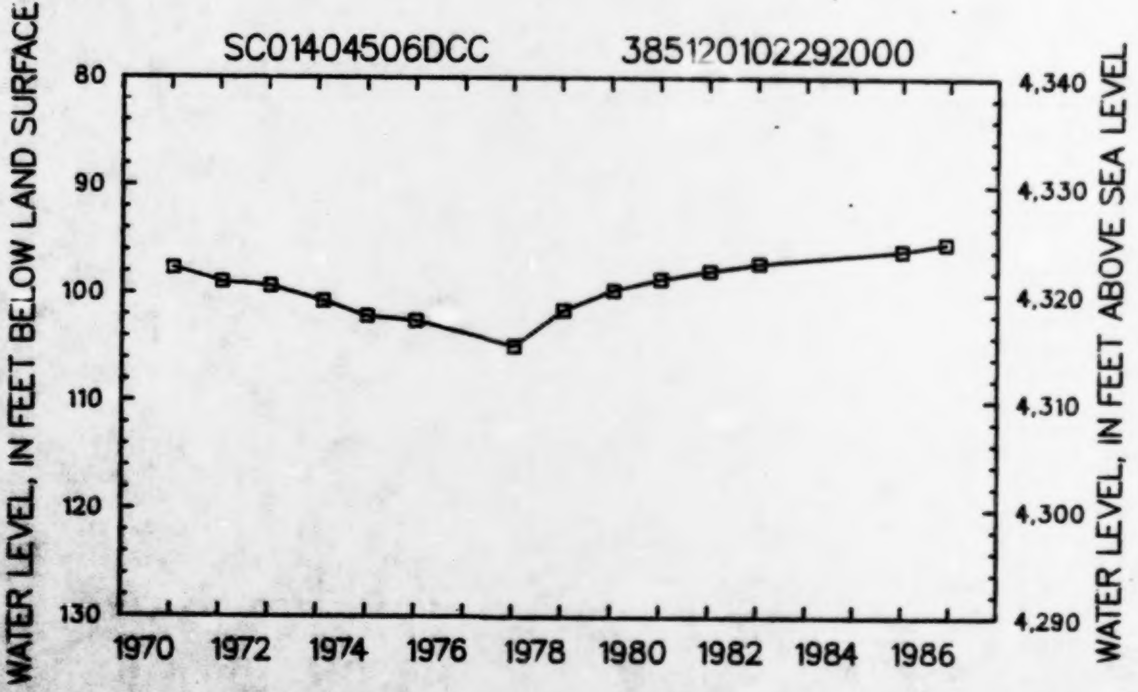


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

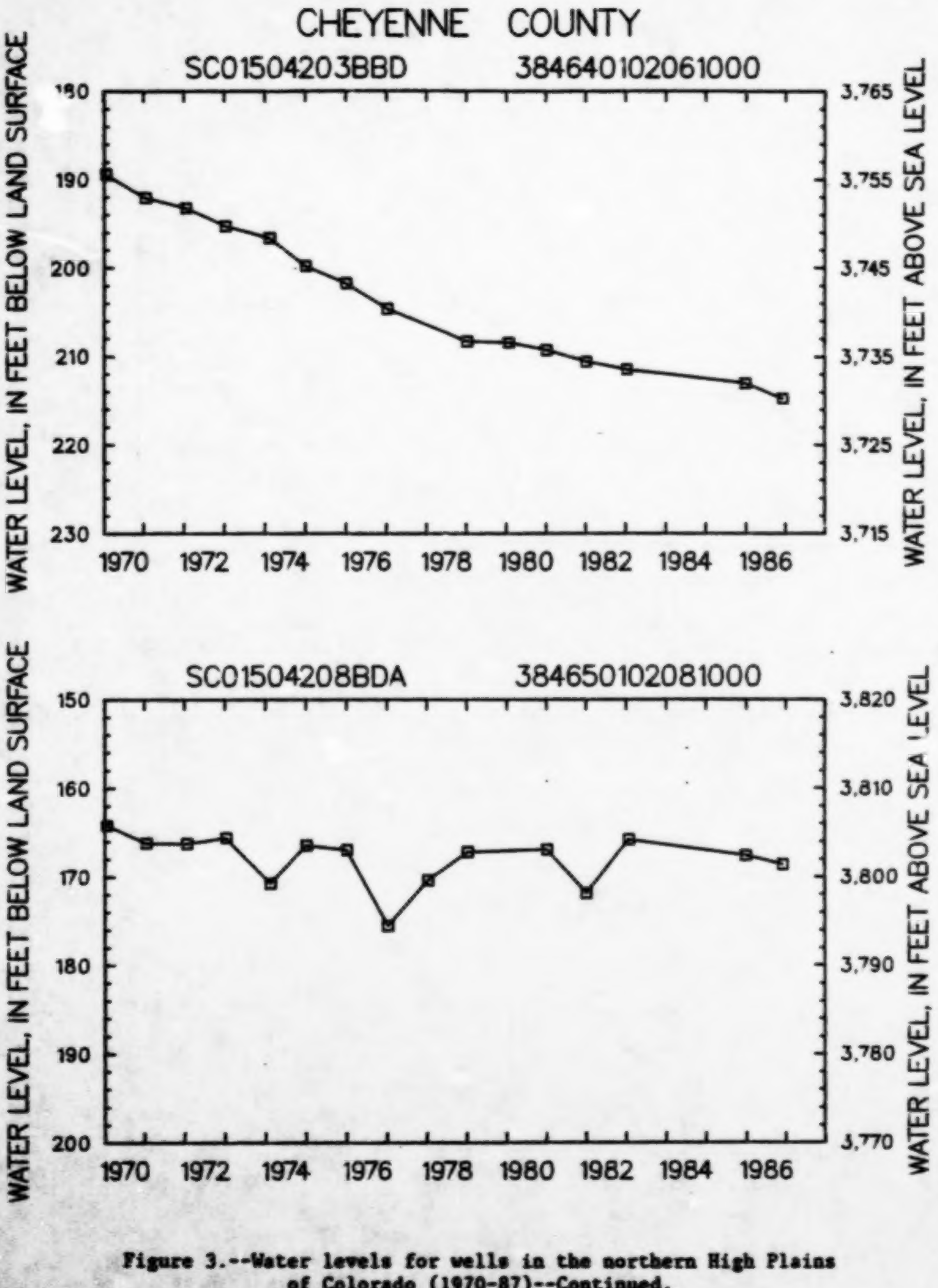
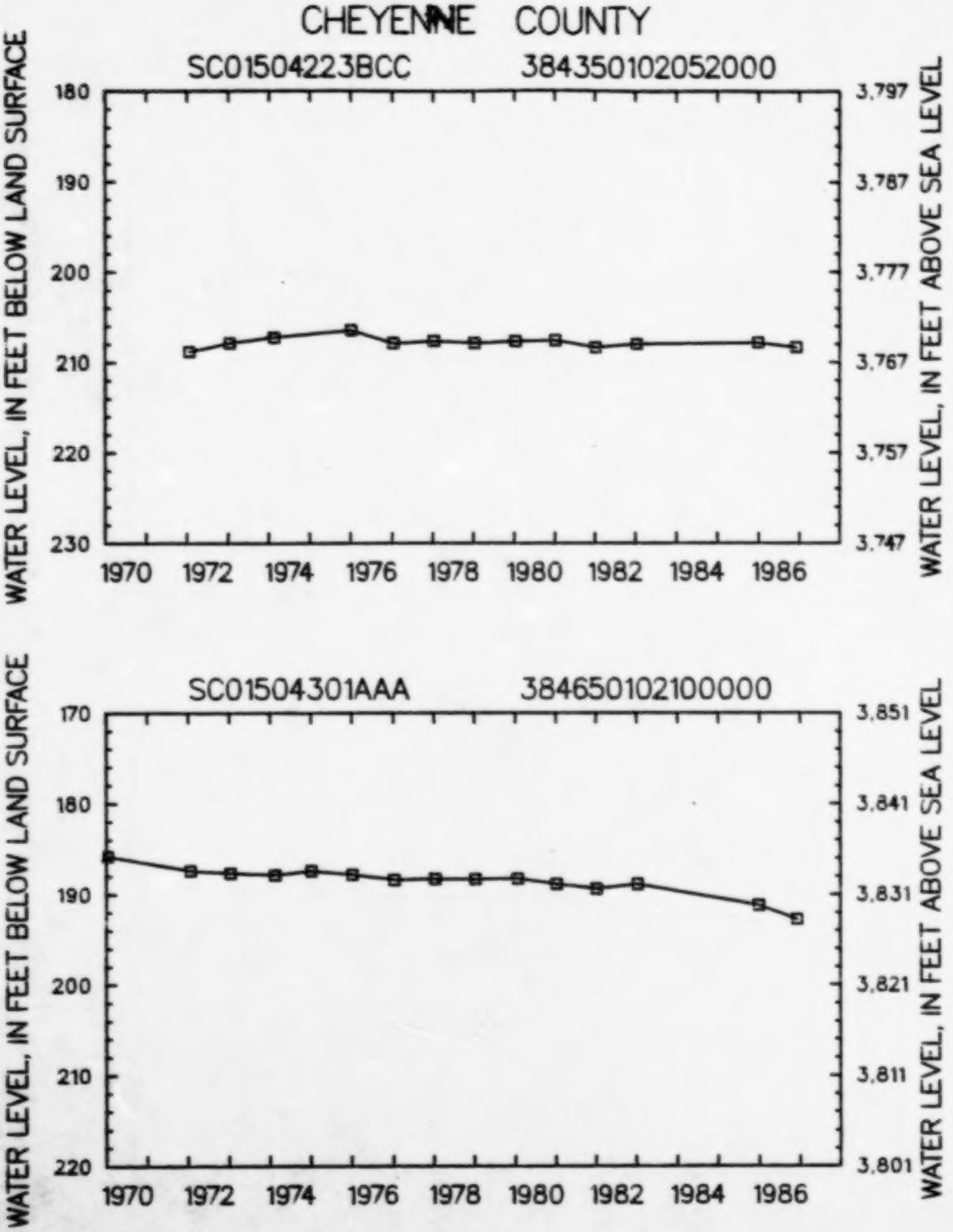


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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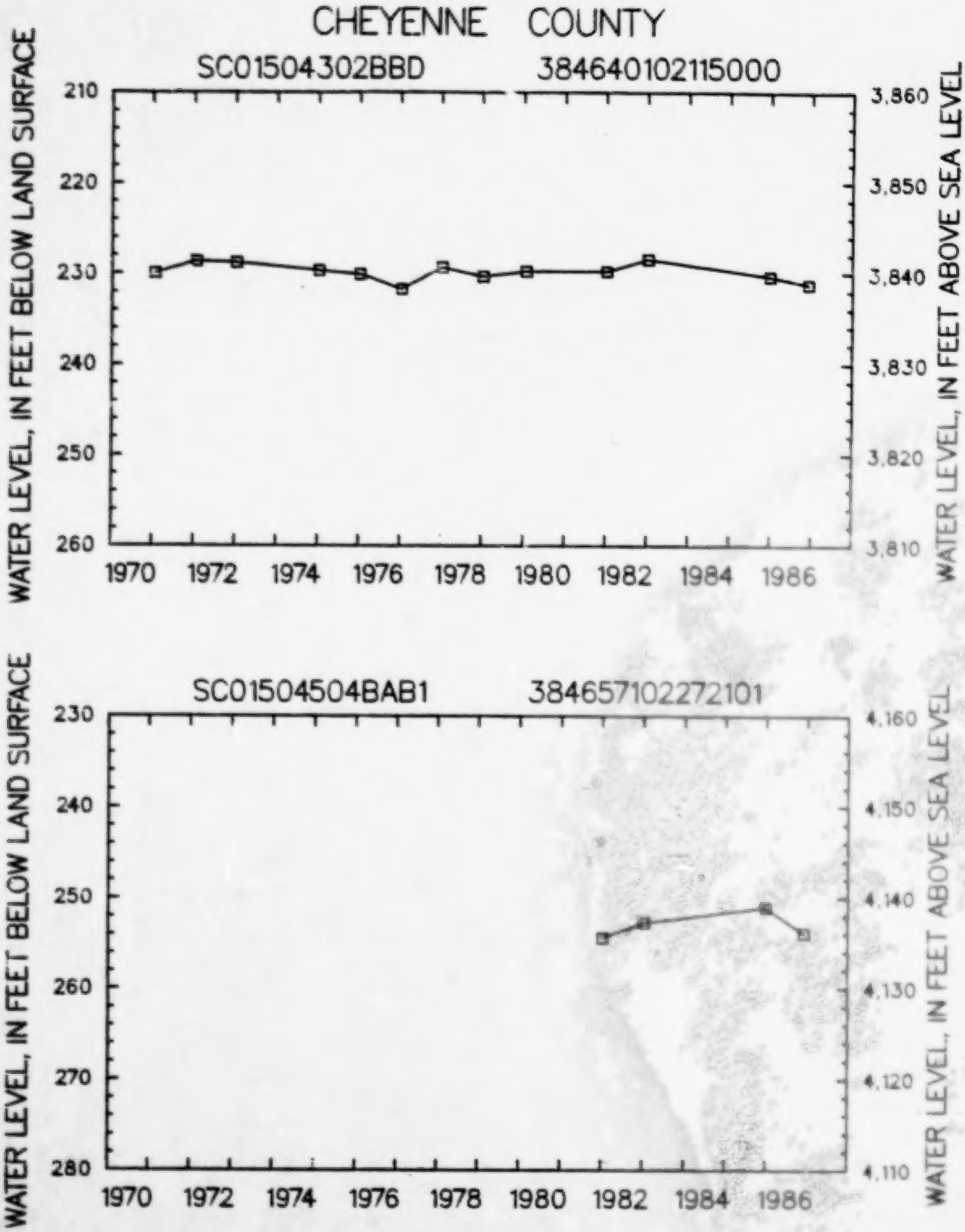


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

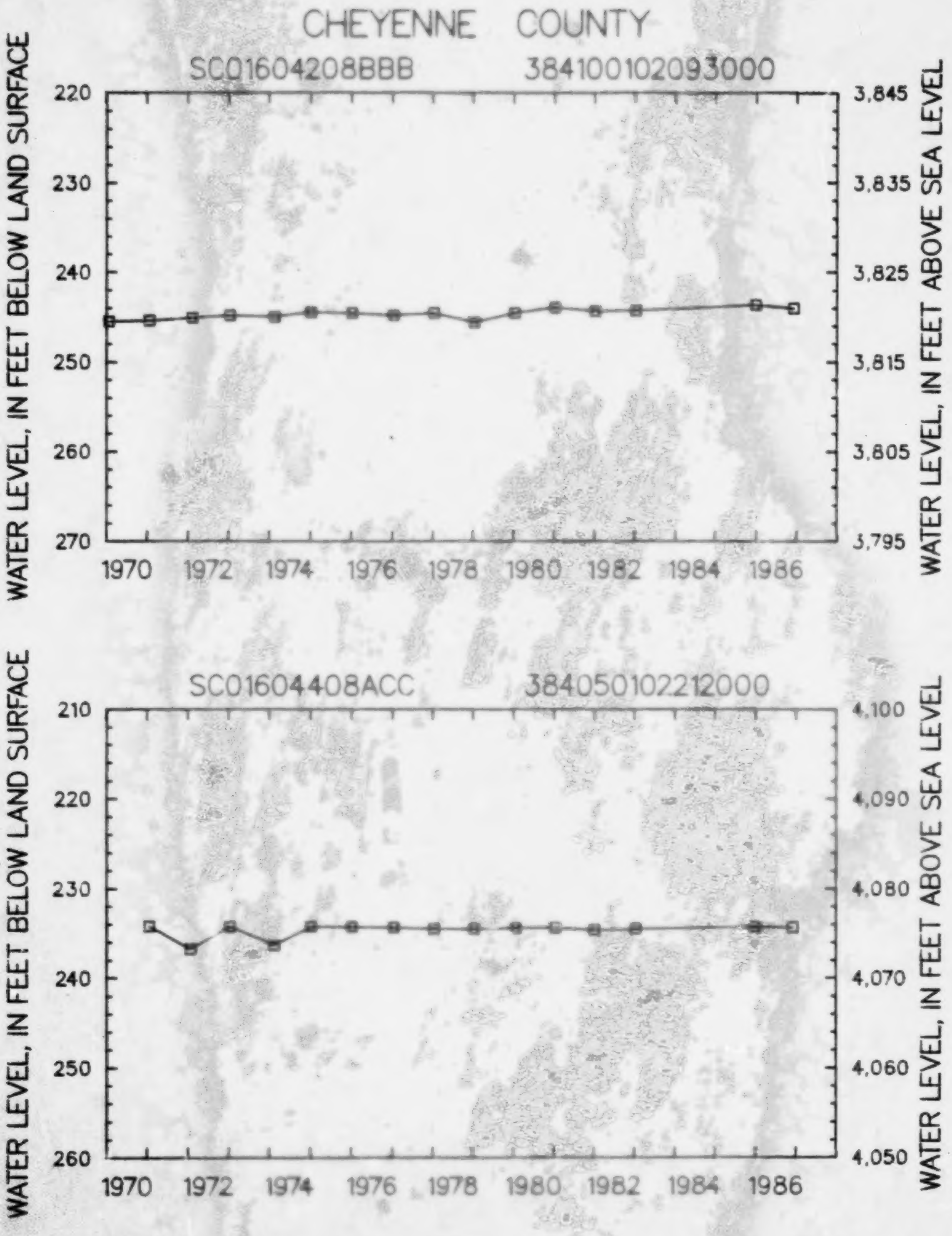
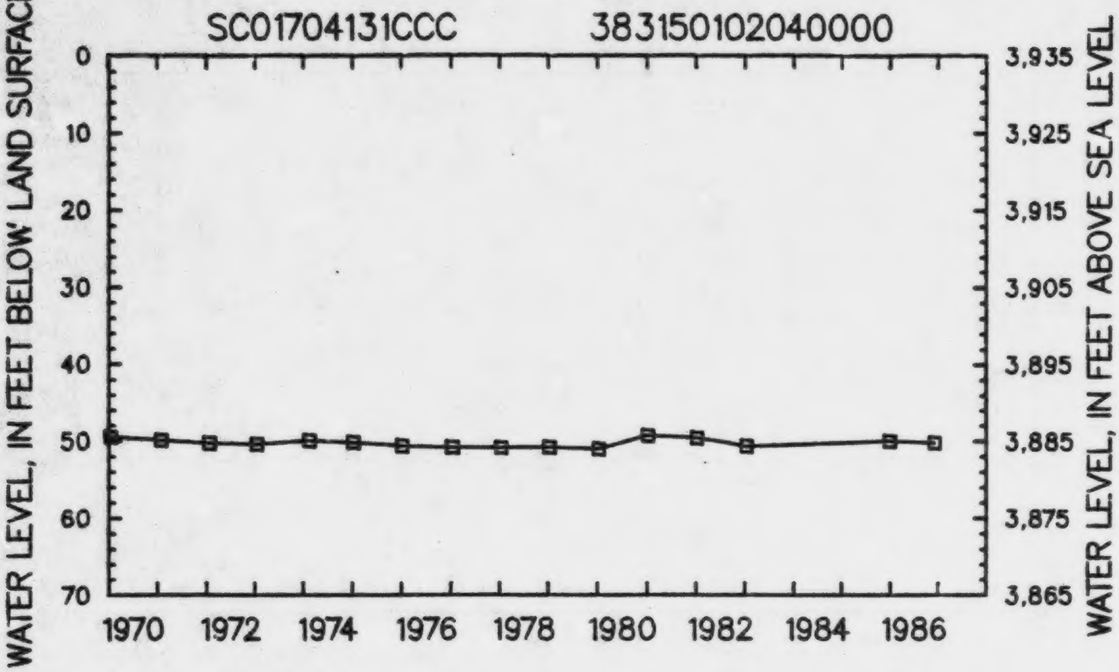


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

KIOWA COUNTY



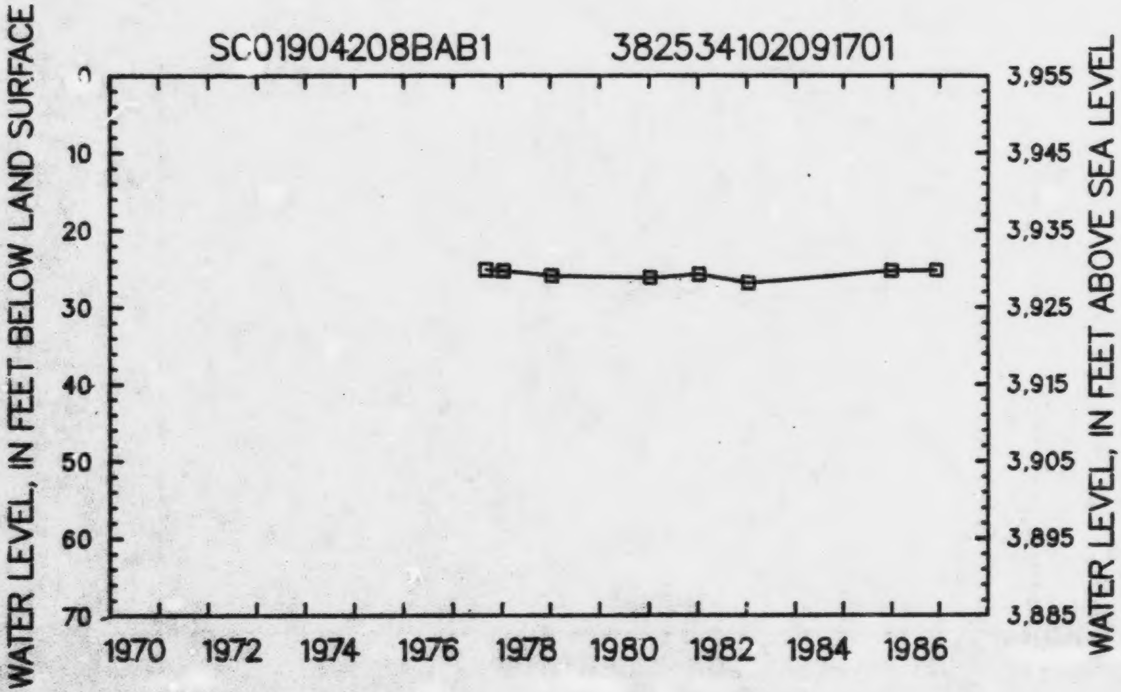


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

KIOWA COUNTY

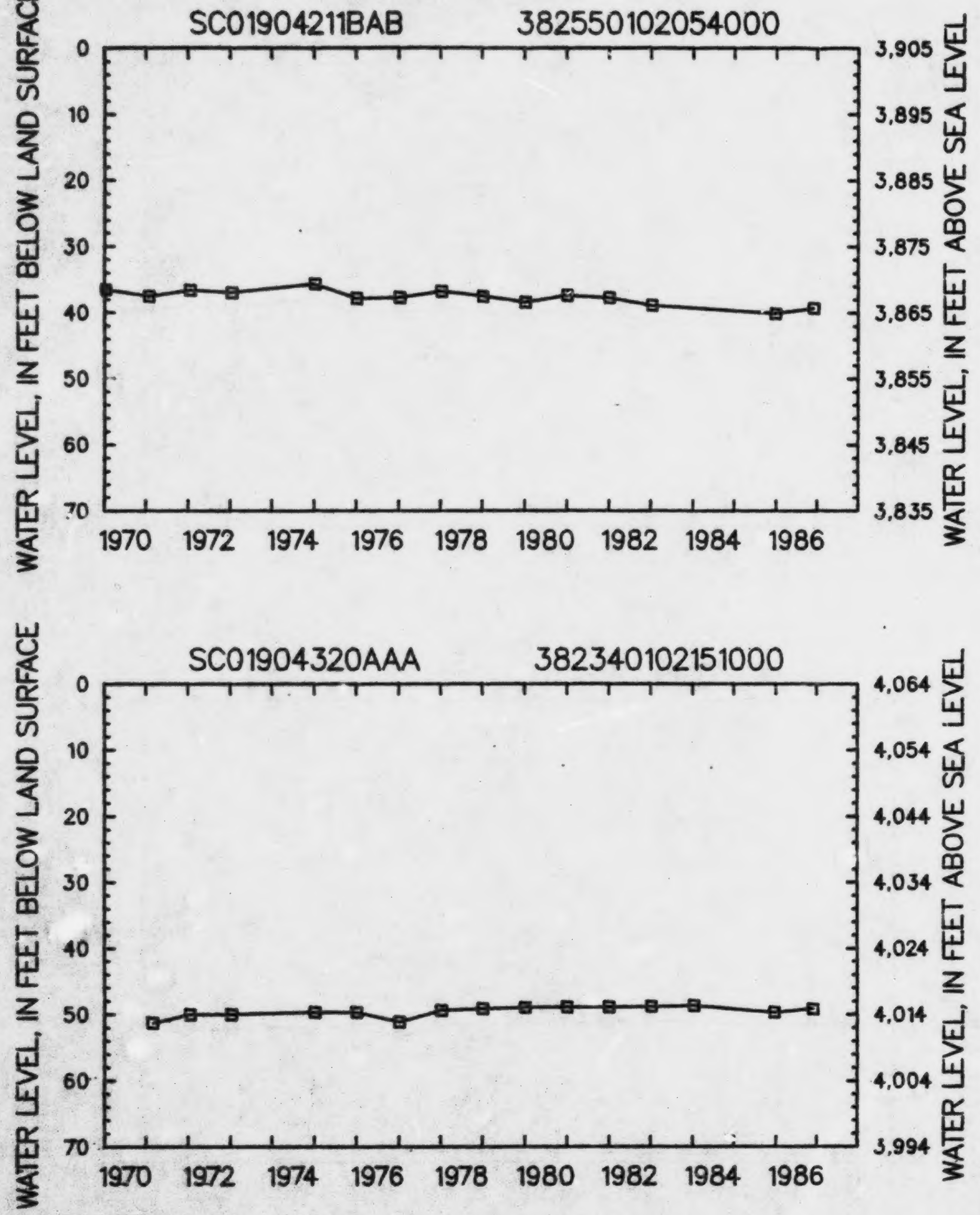

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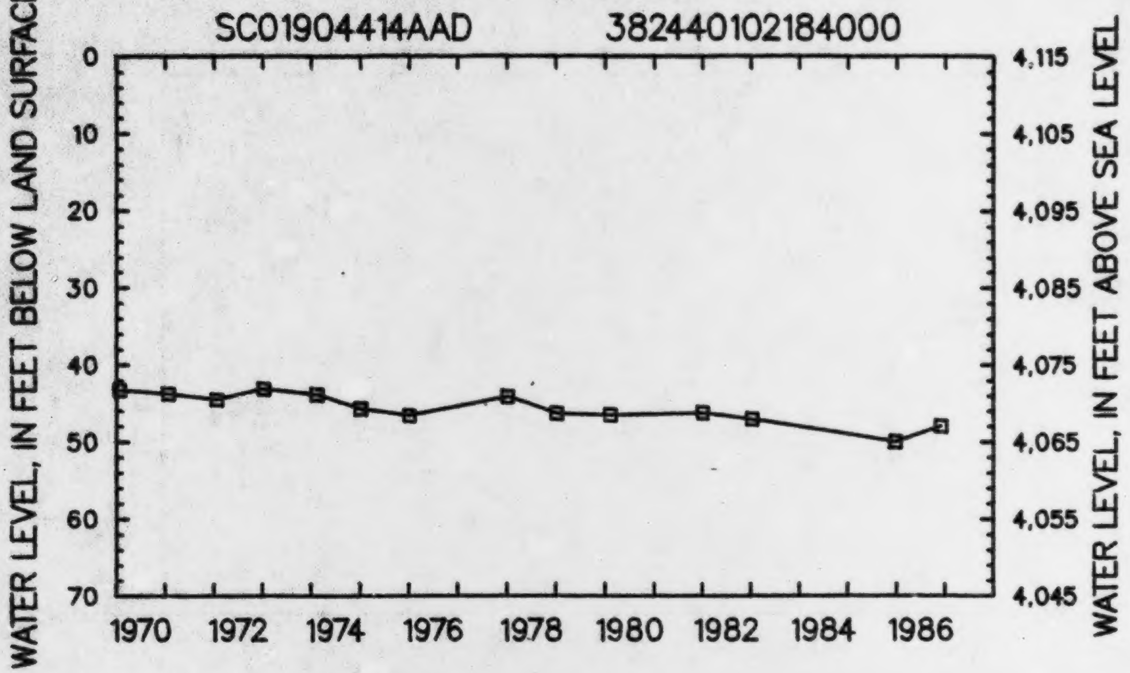
Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

KIOWA COUNTY



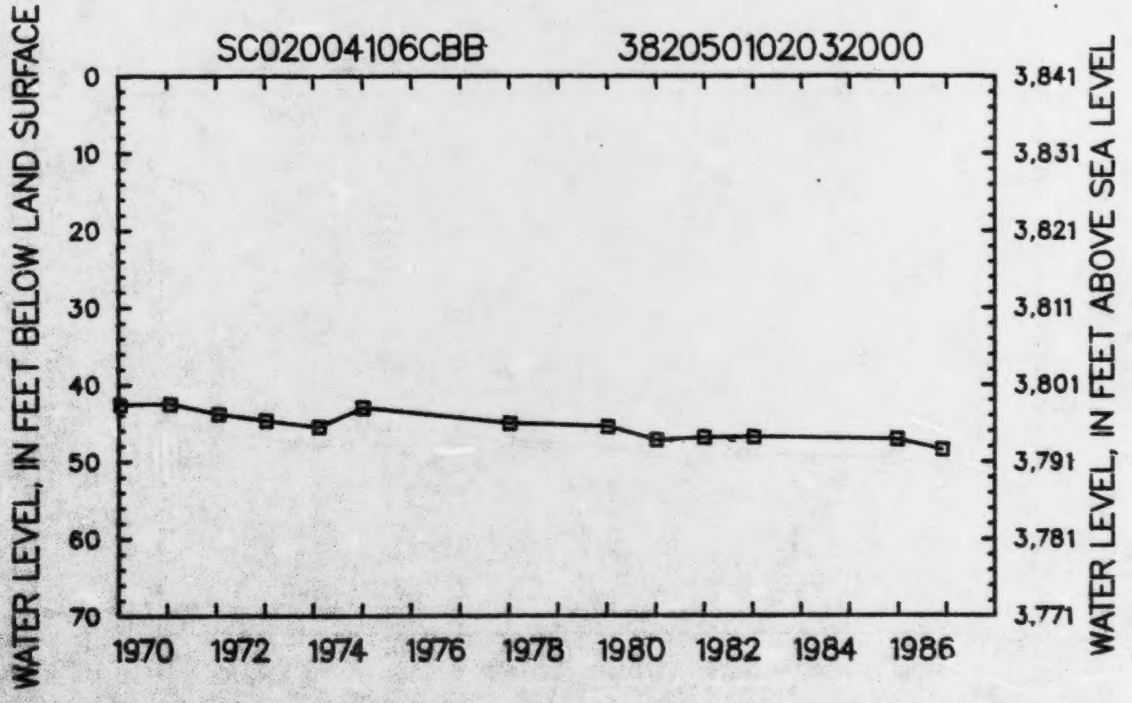
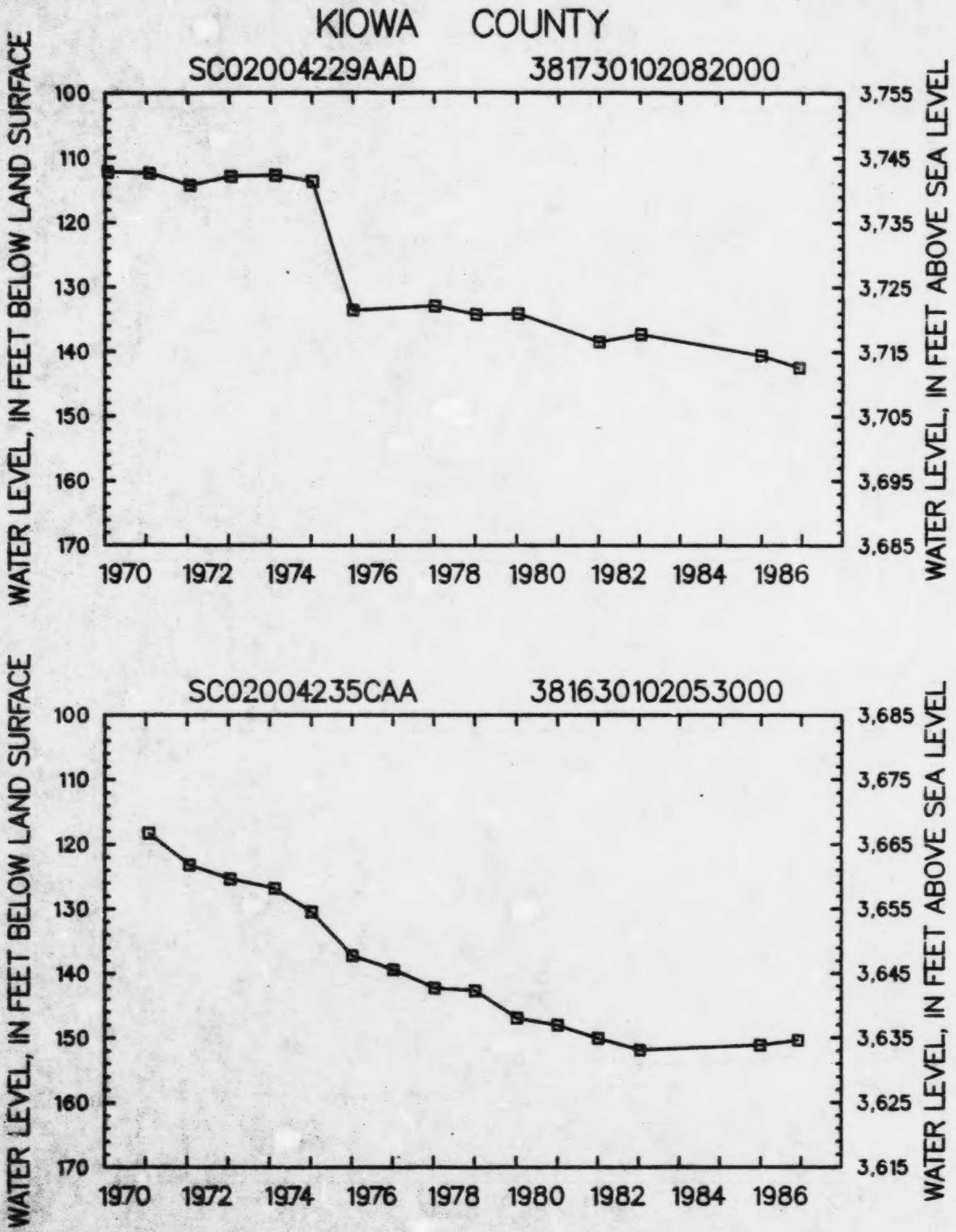


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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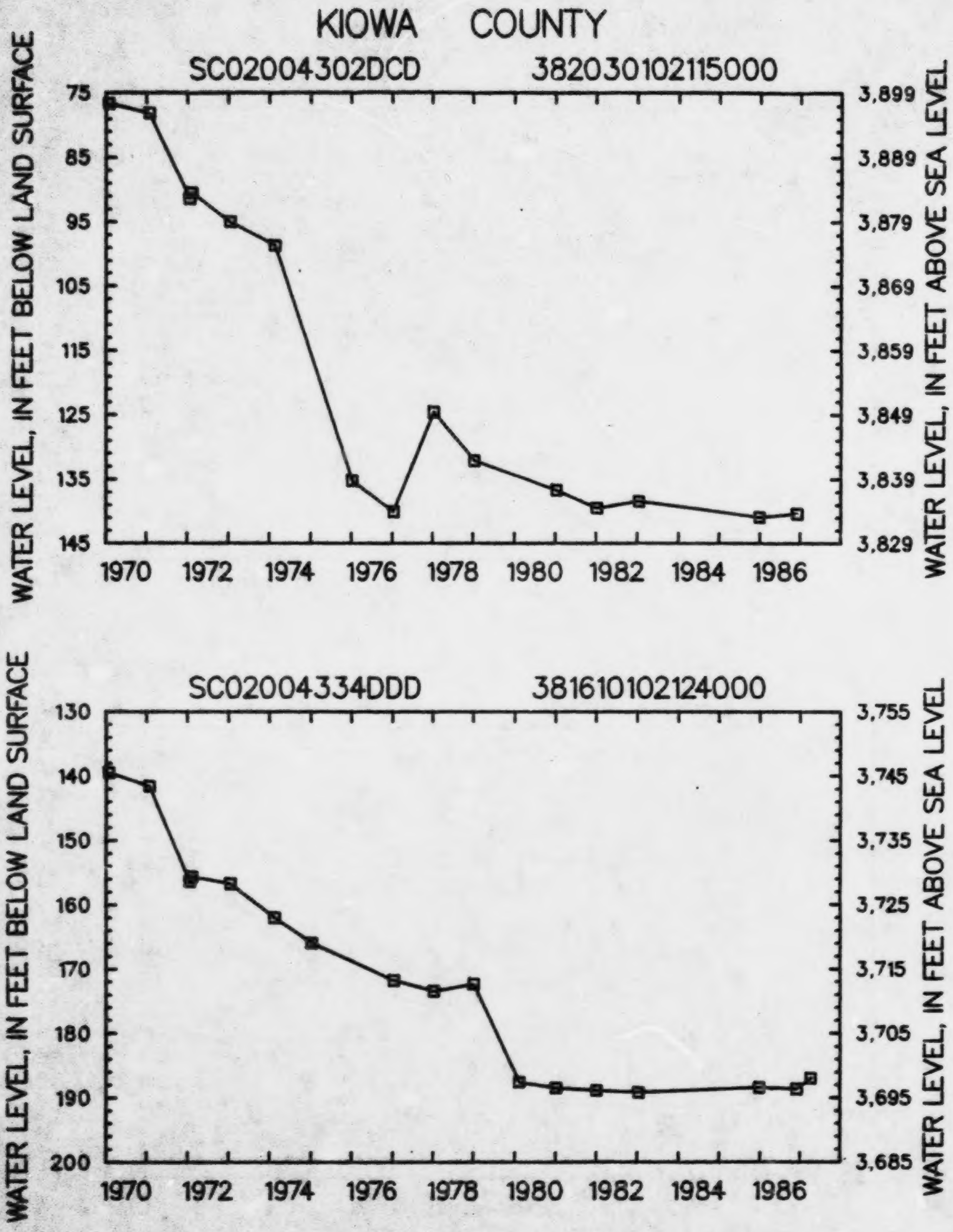


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

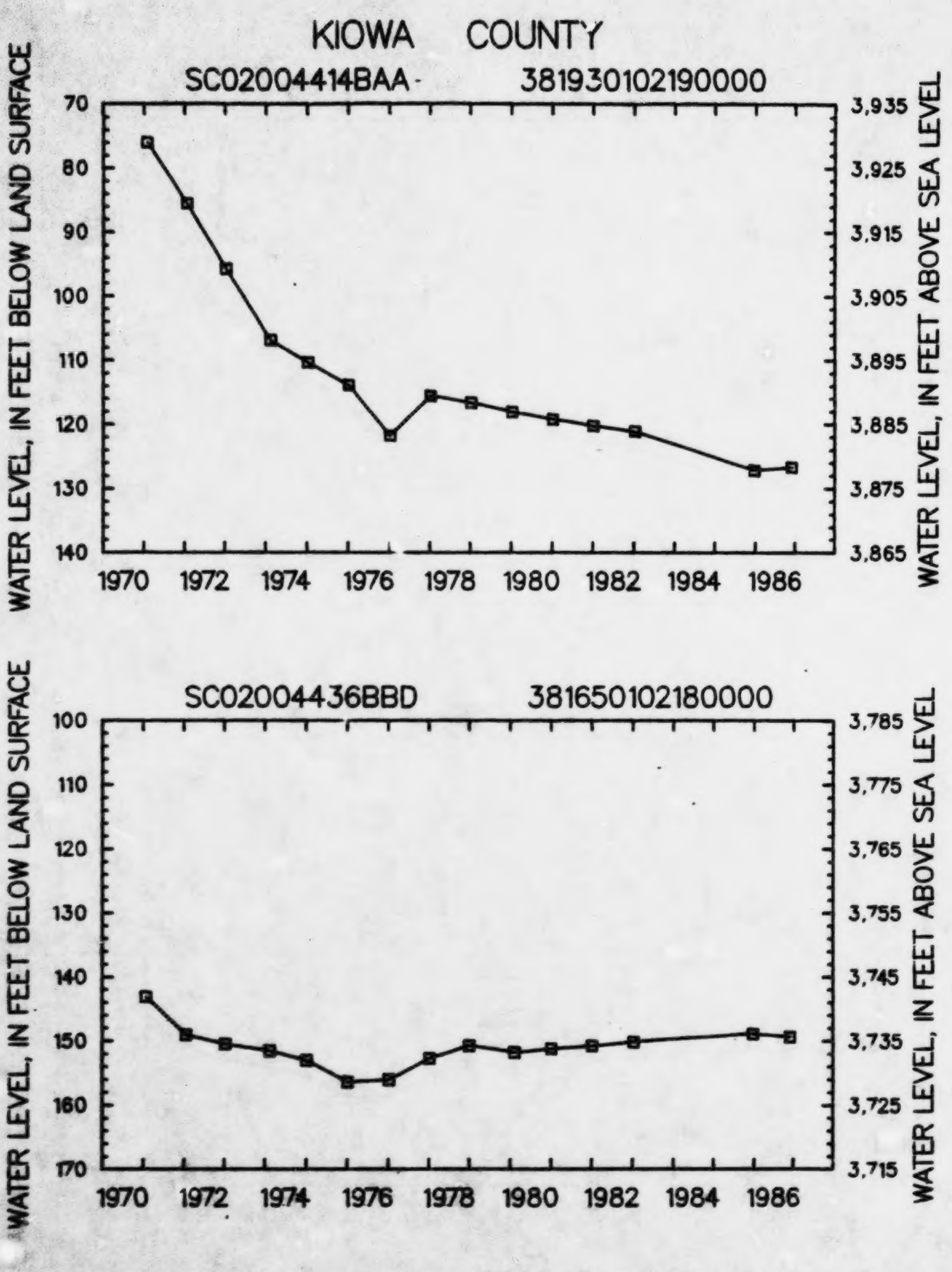
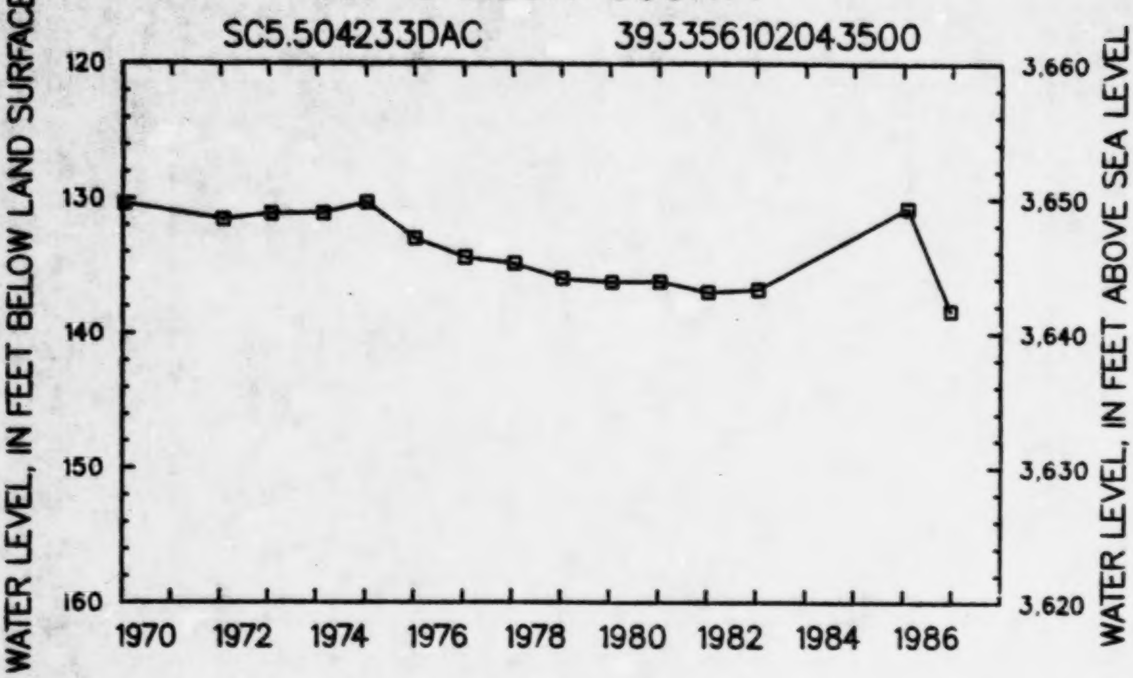


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

KIT CARSON COUNTY



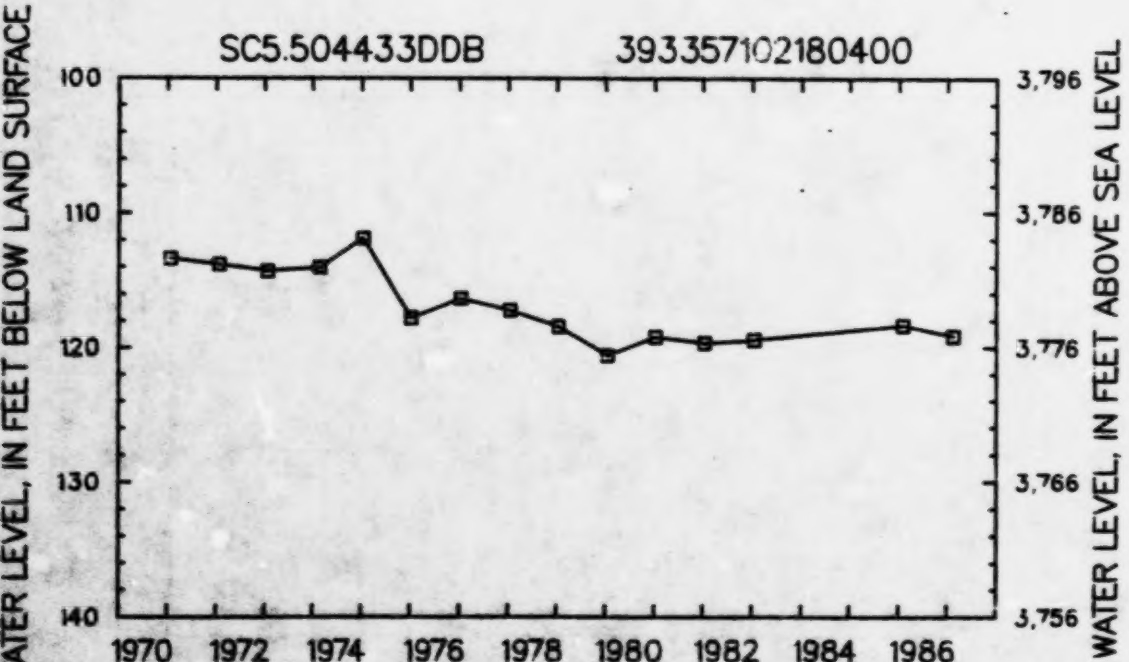
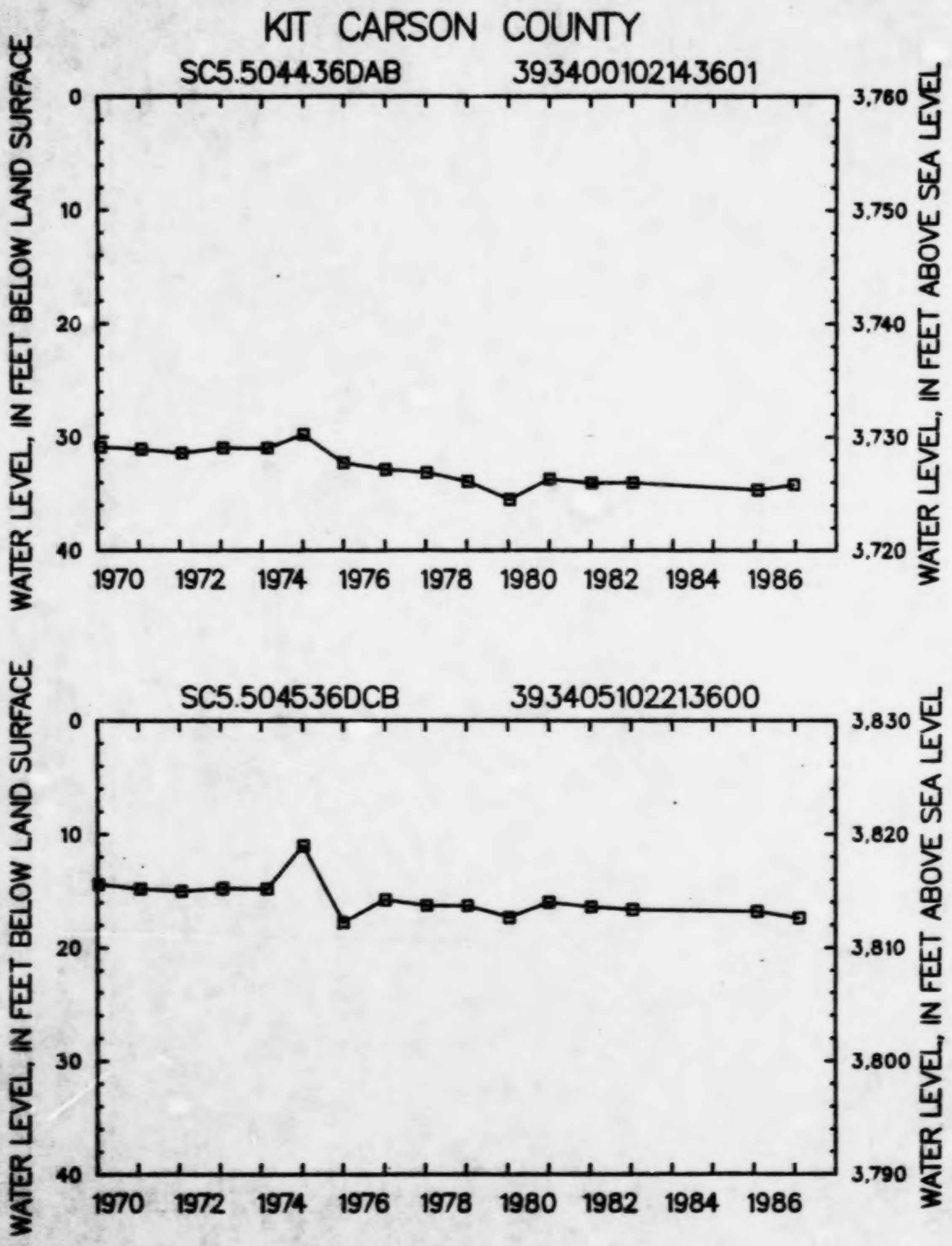


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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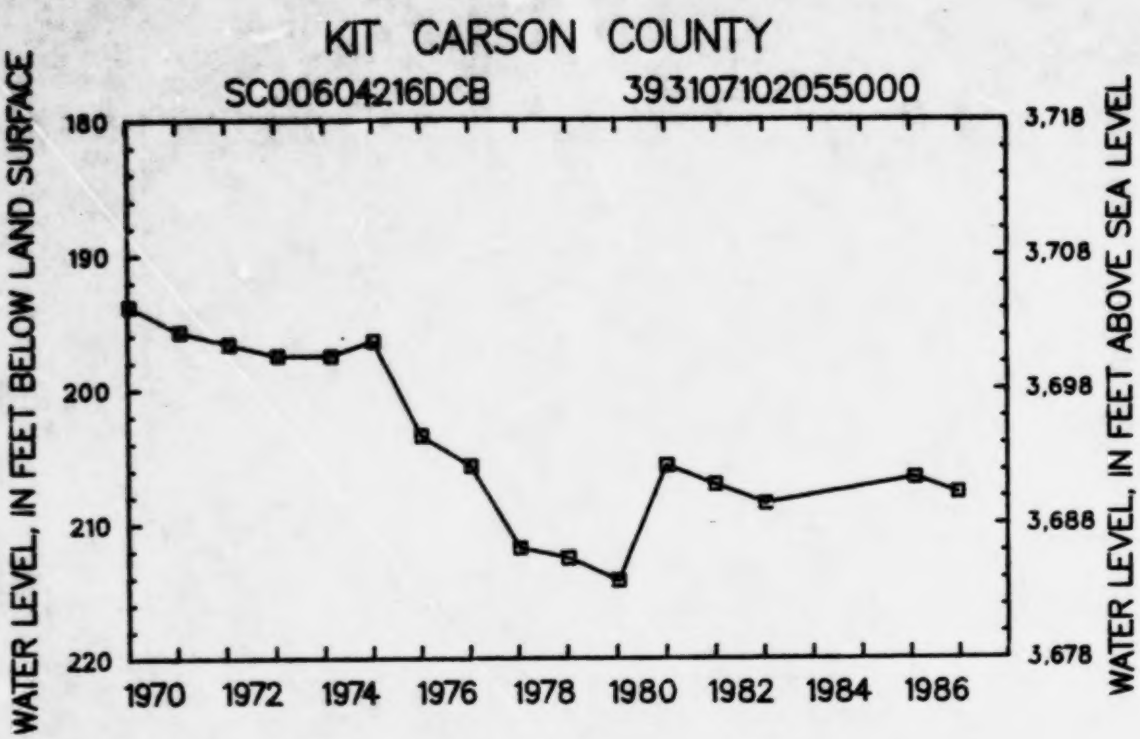

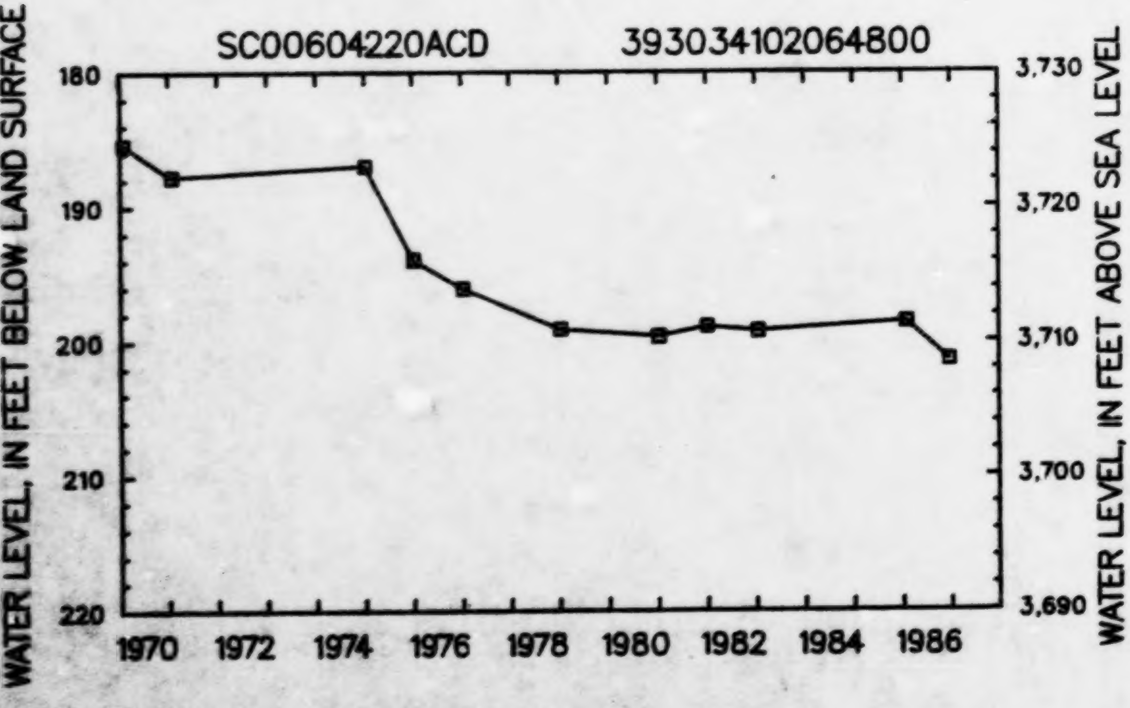

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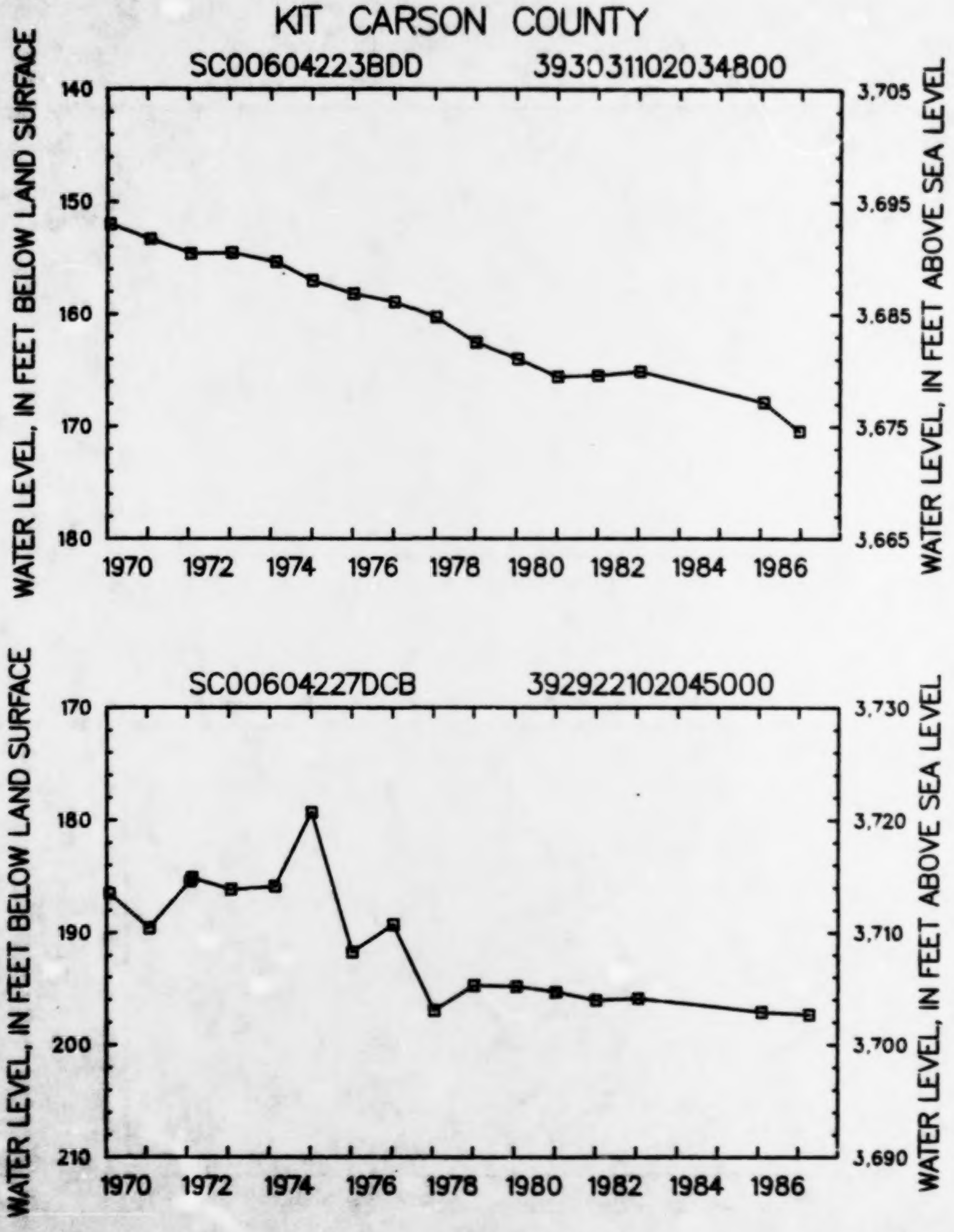

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Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

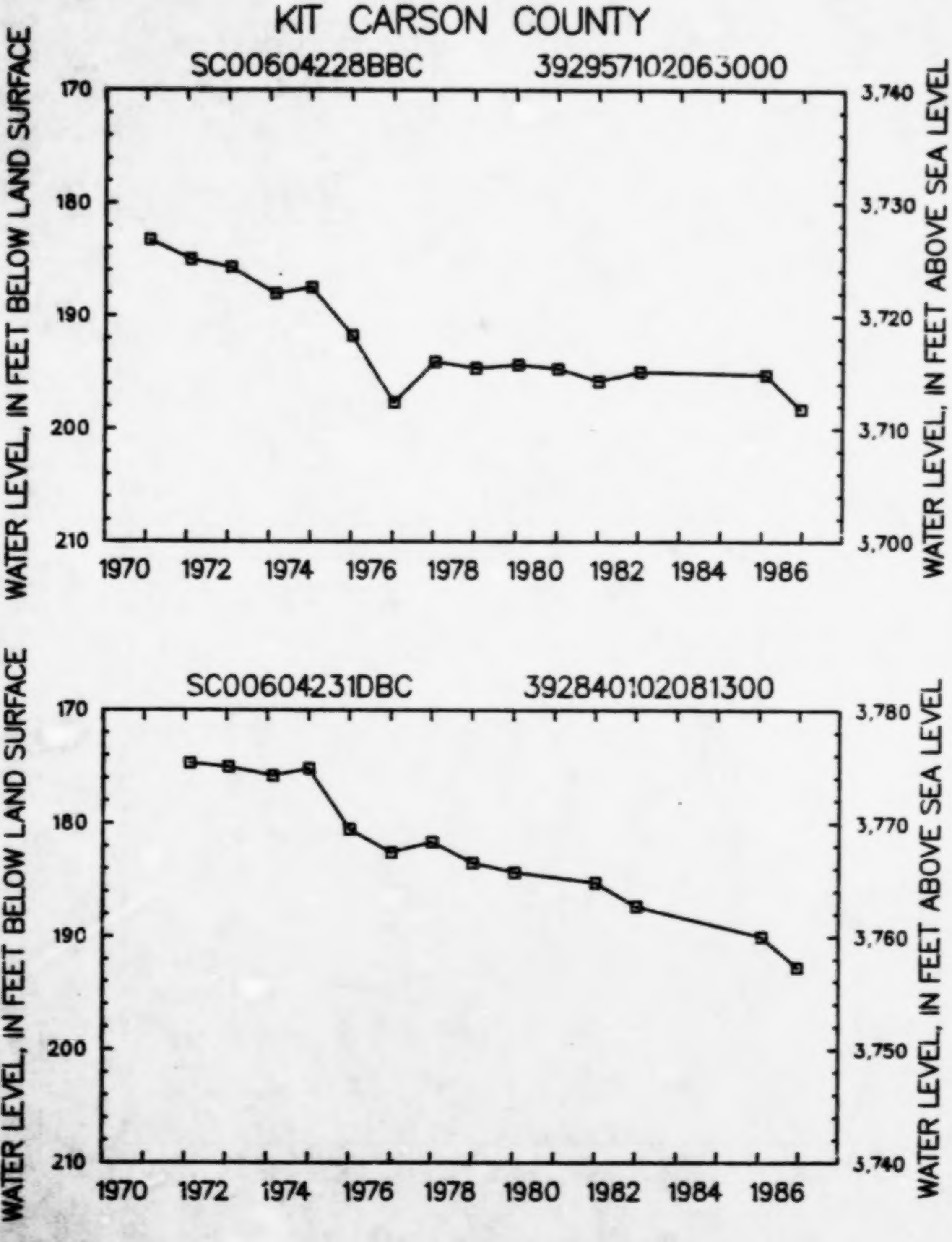

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

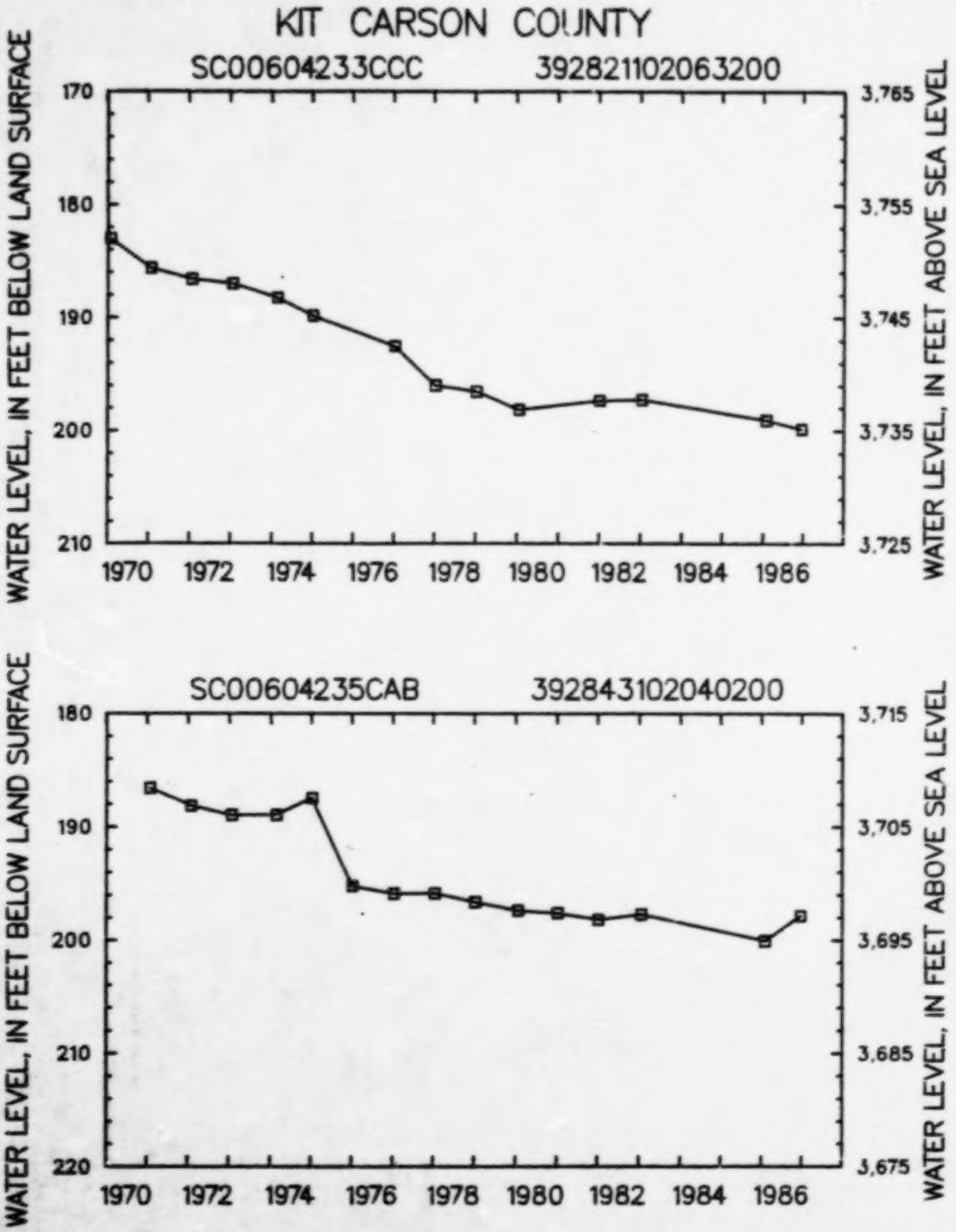

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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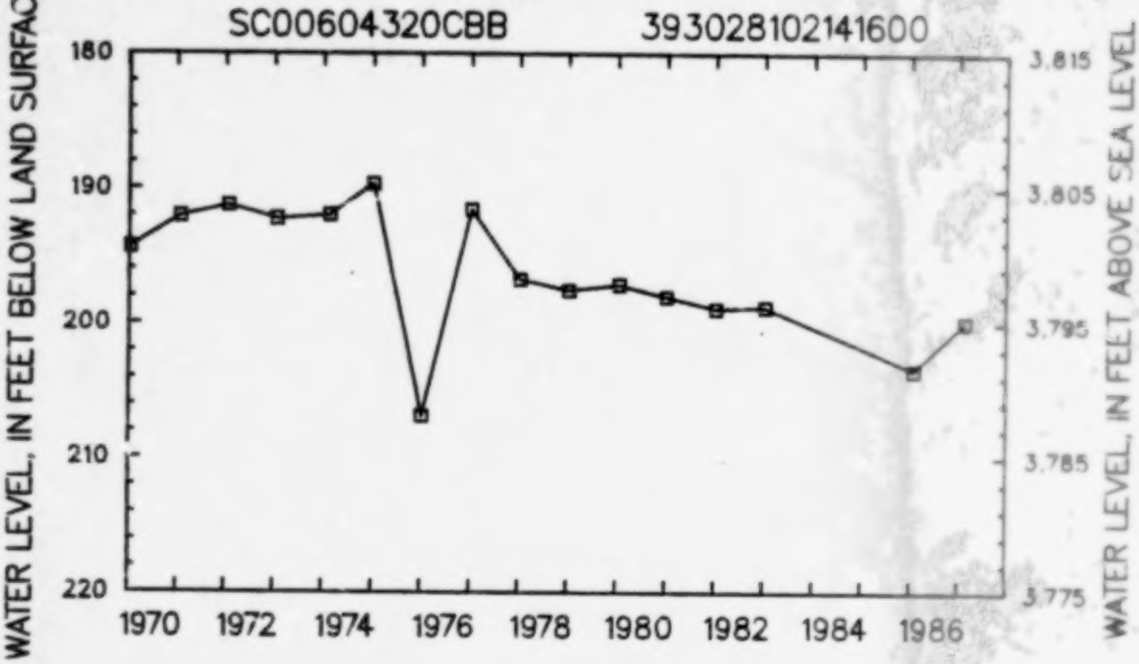


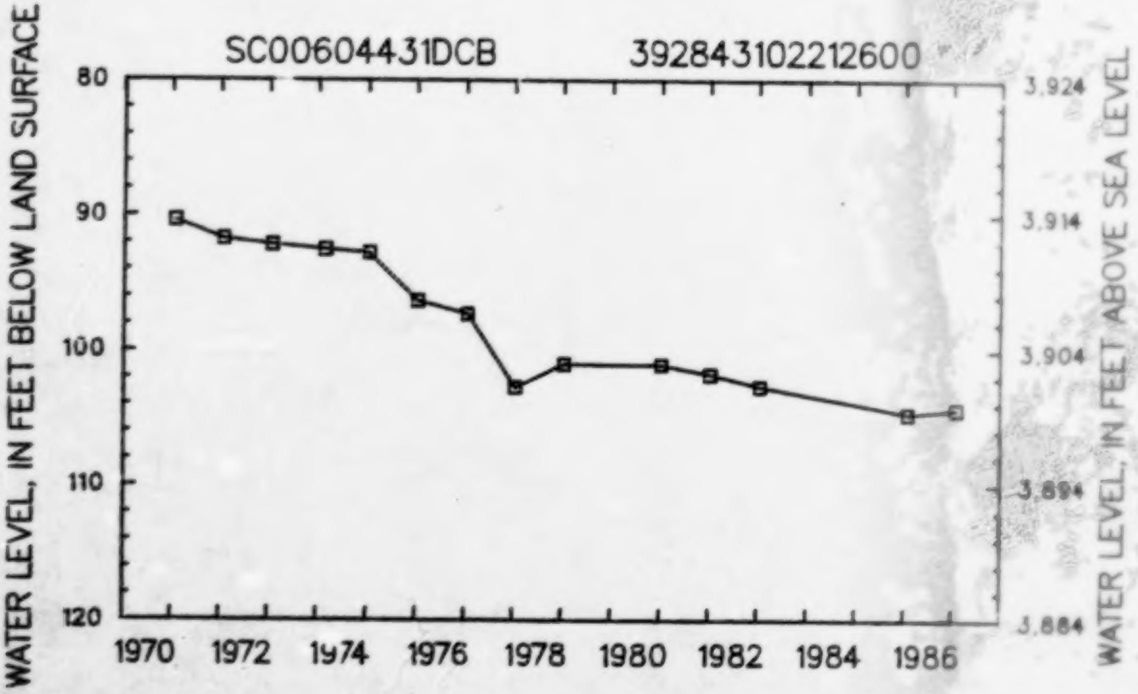


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

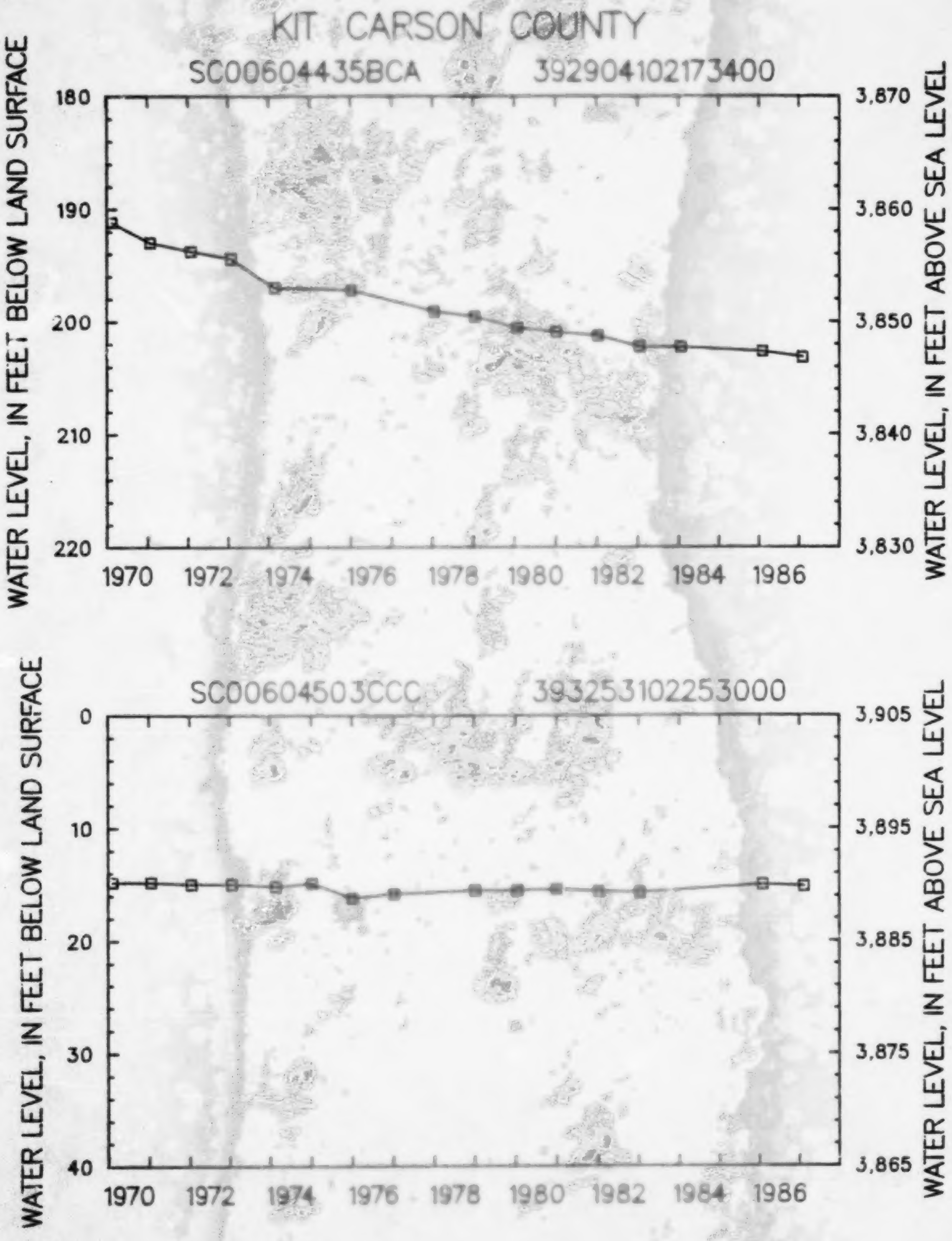
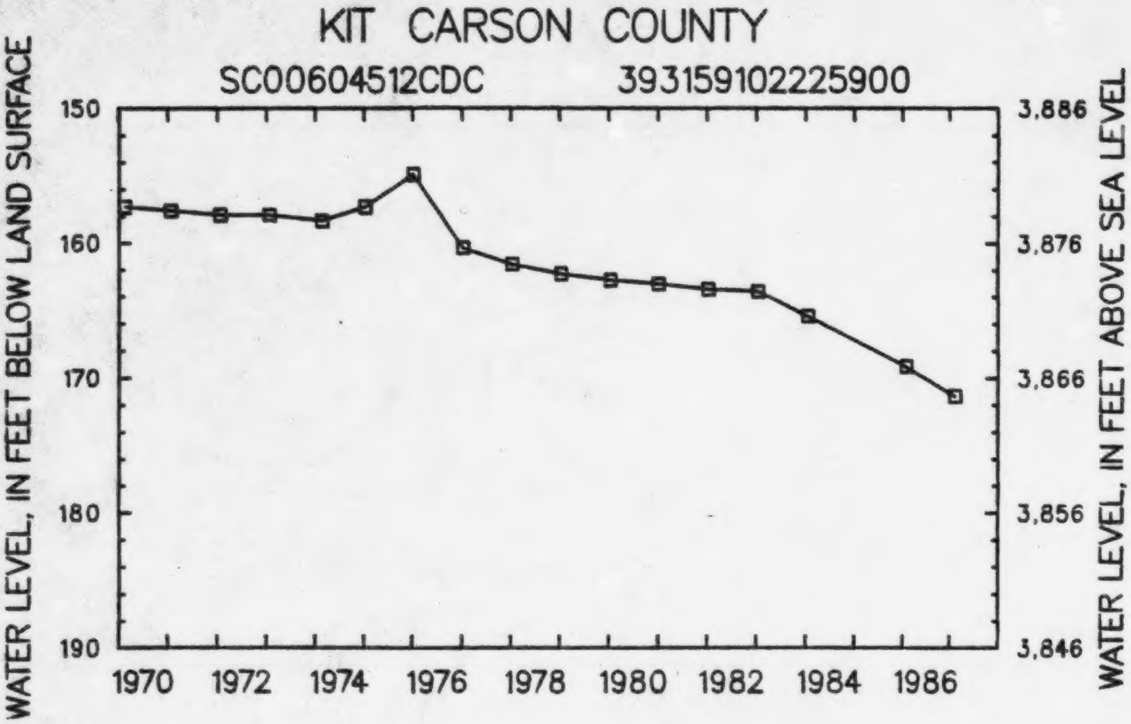


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



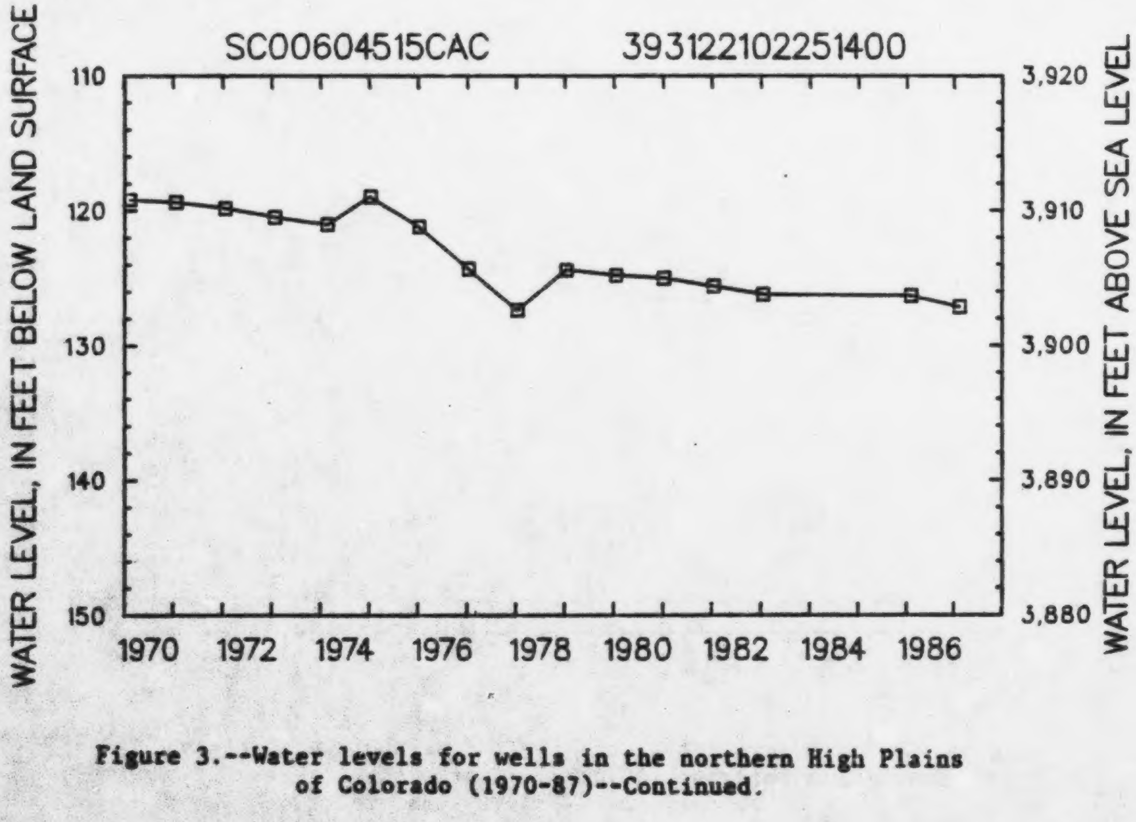


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

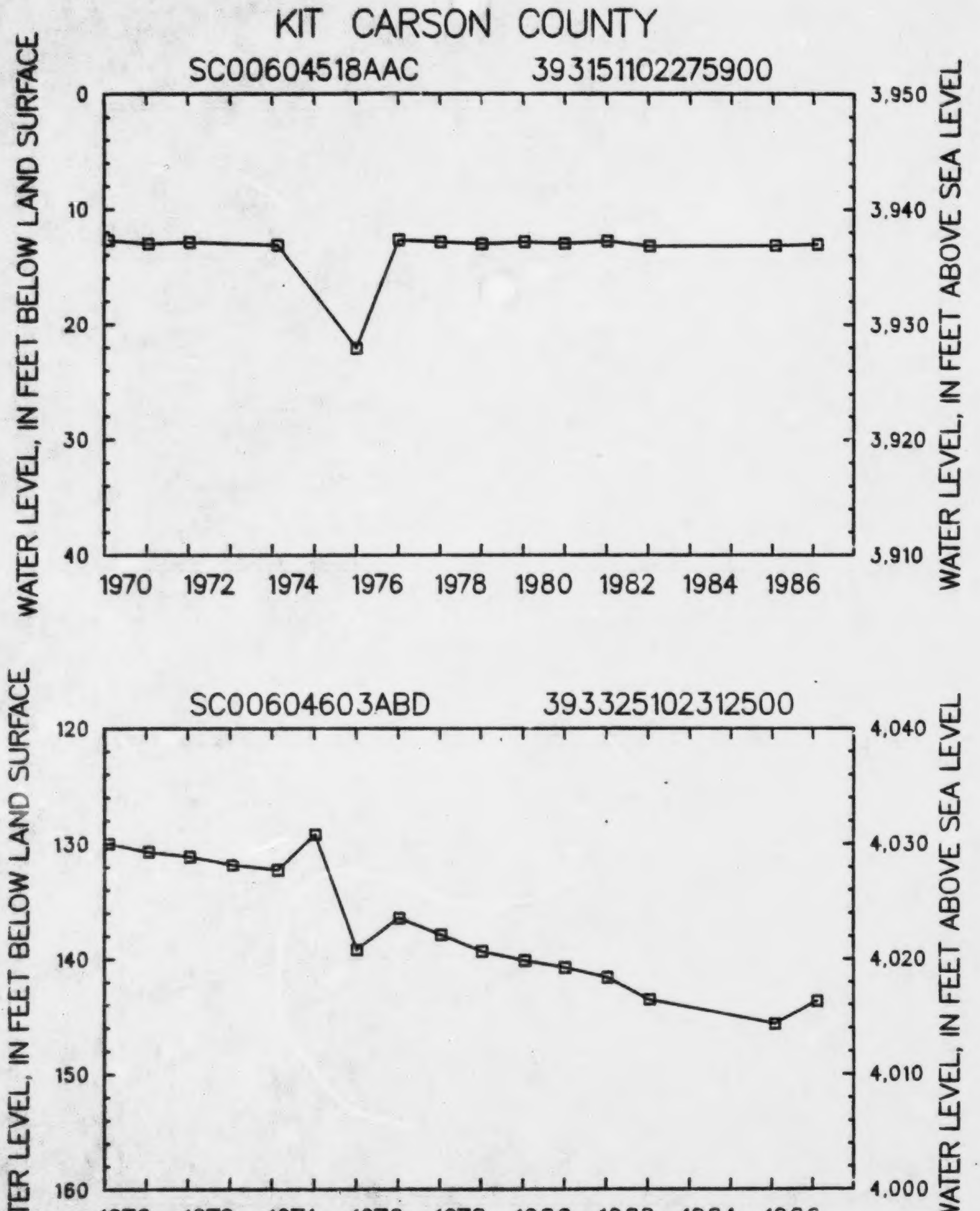
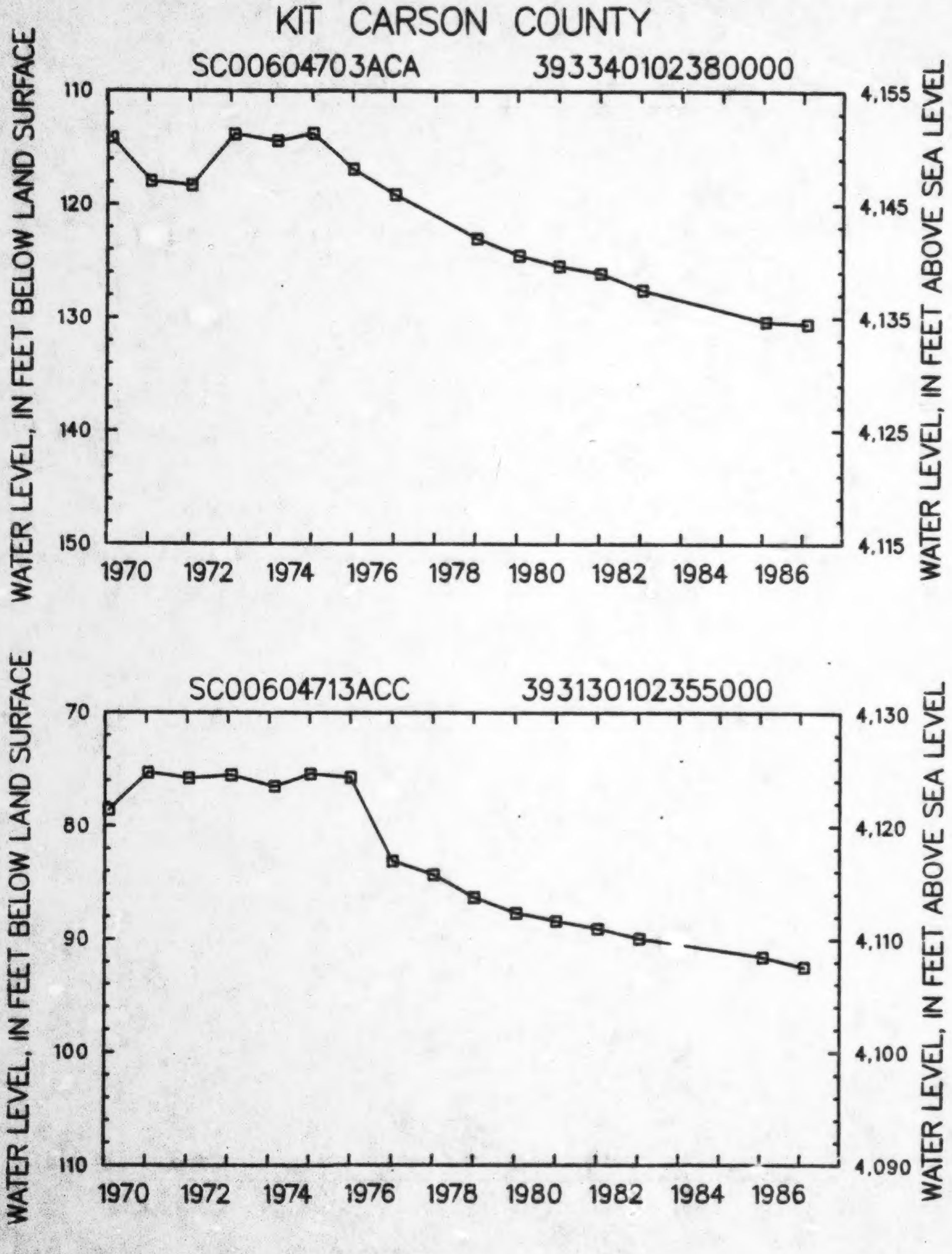


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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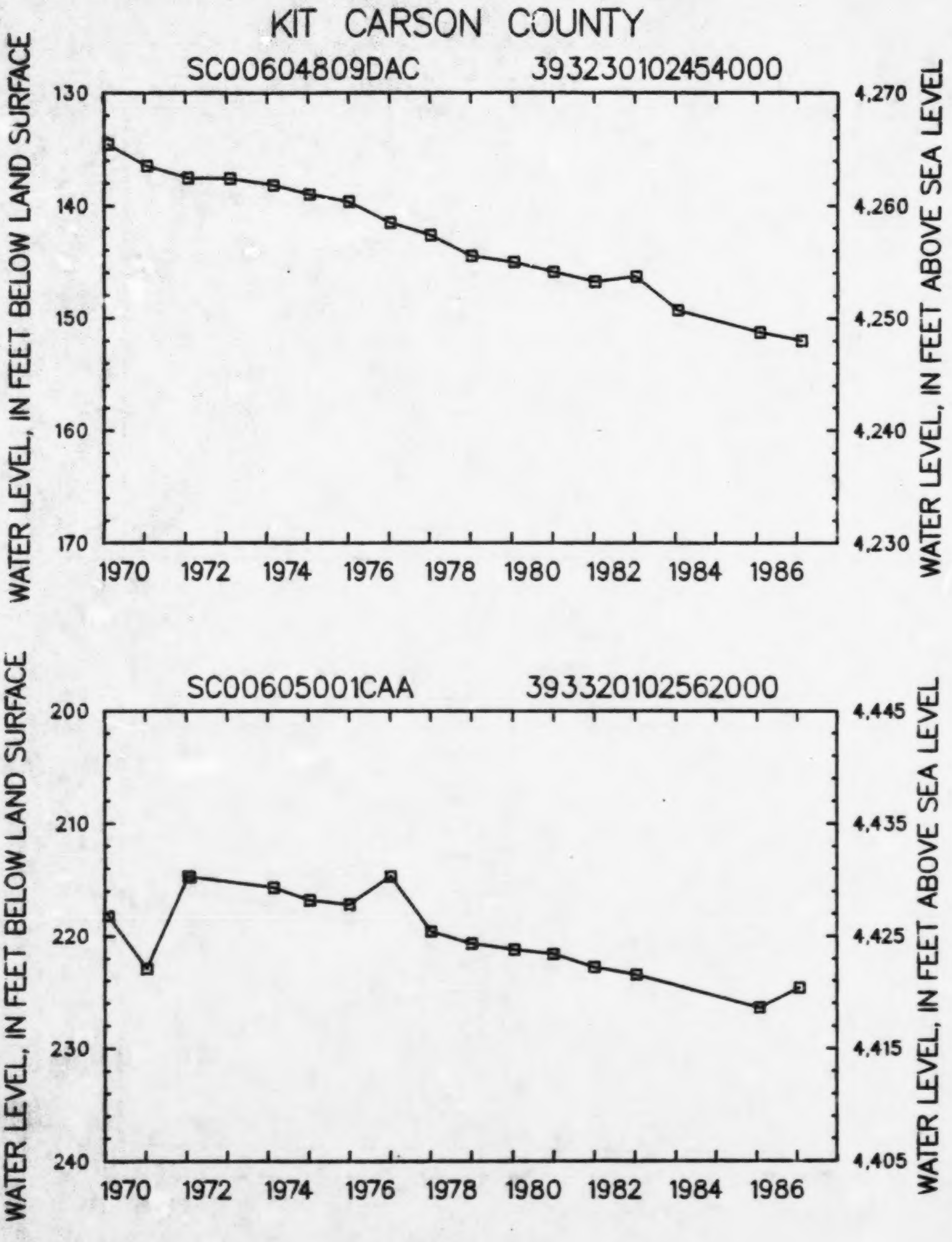

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

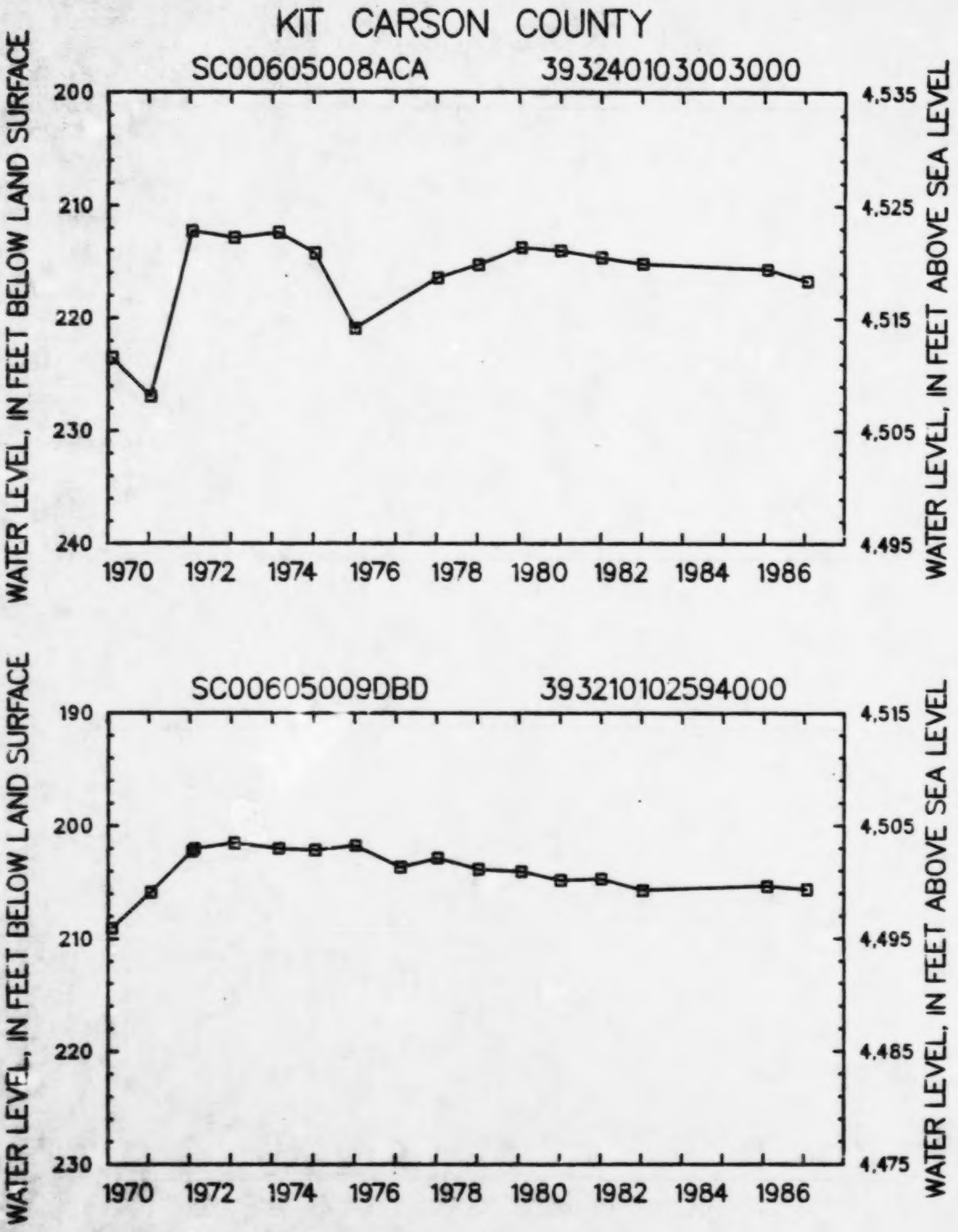

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

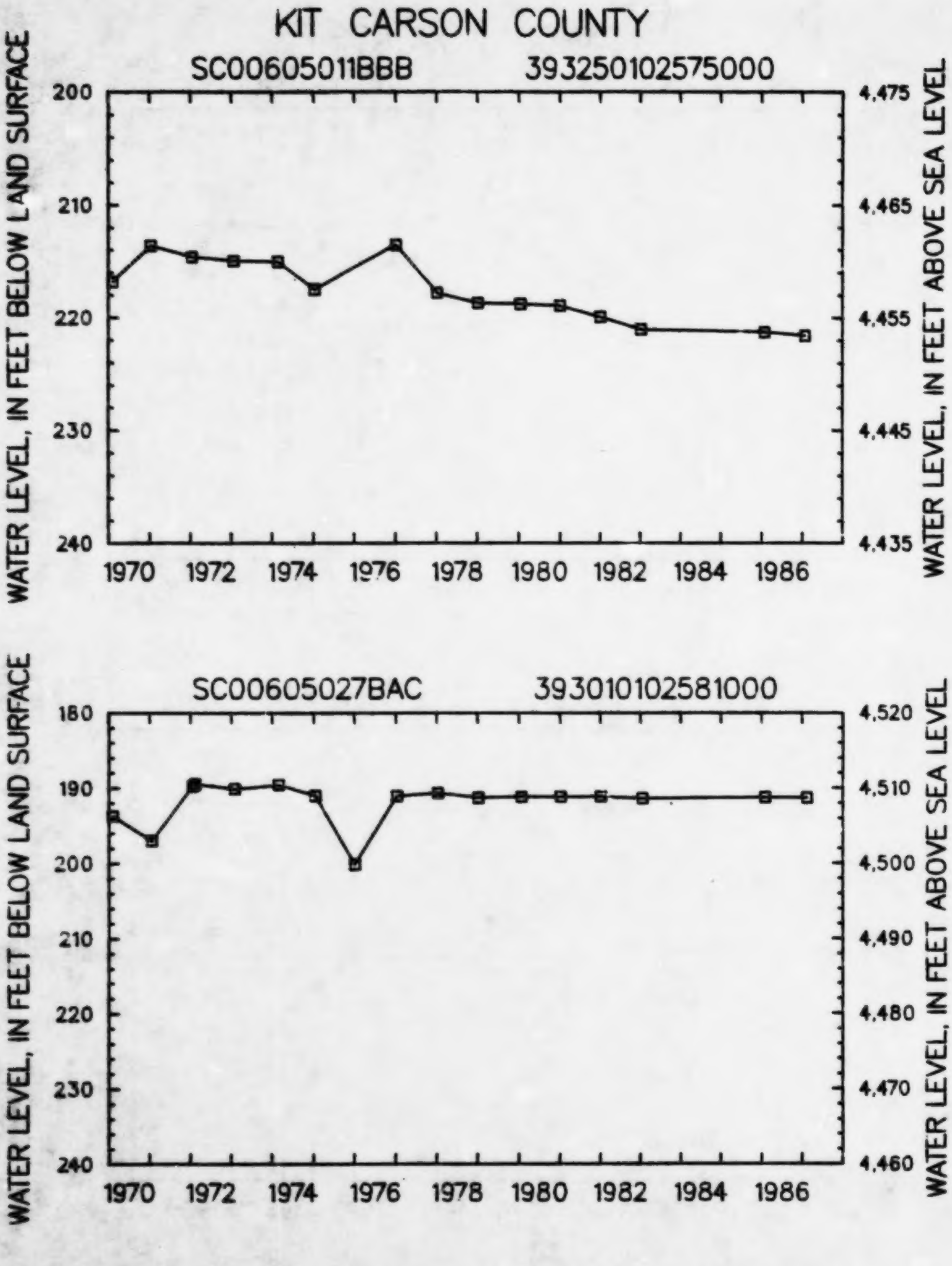

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

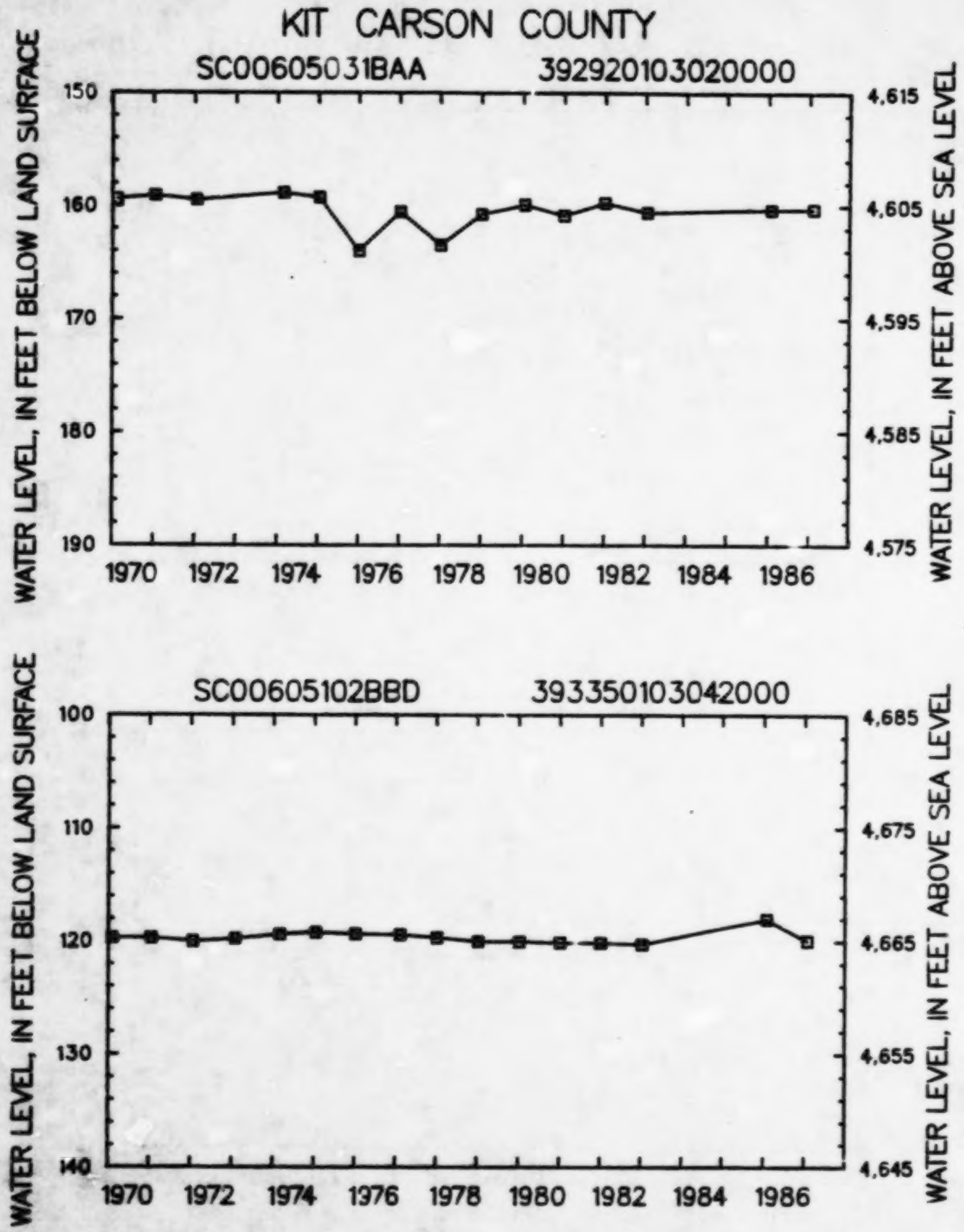

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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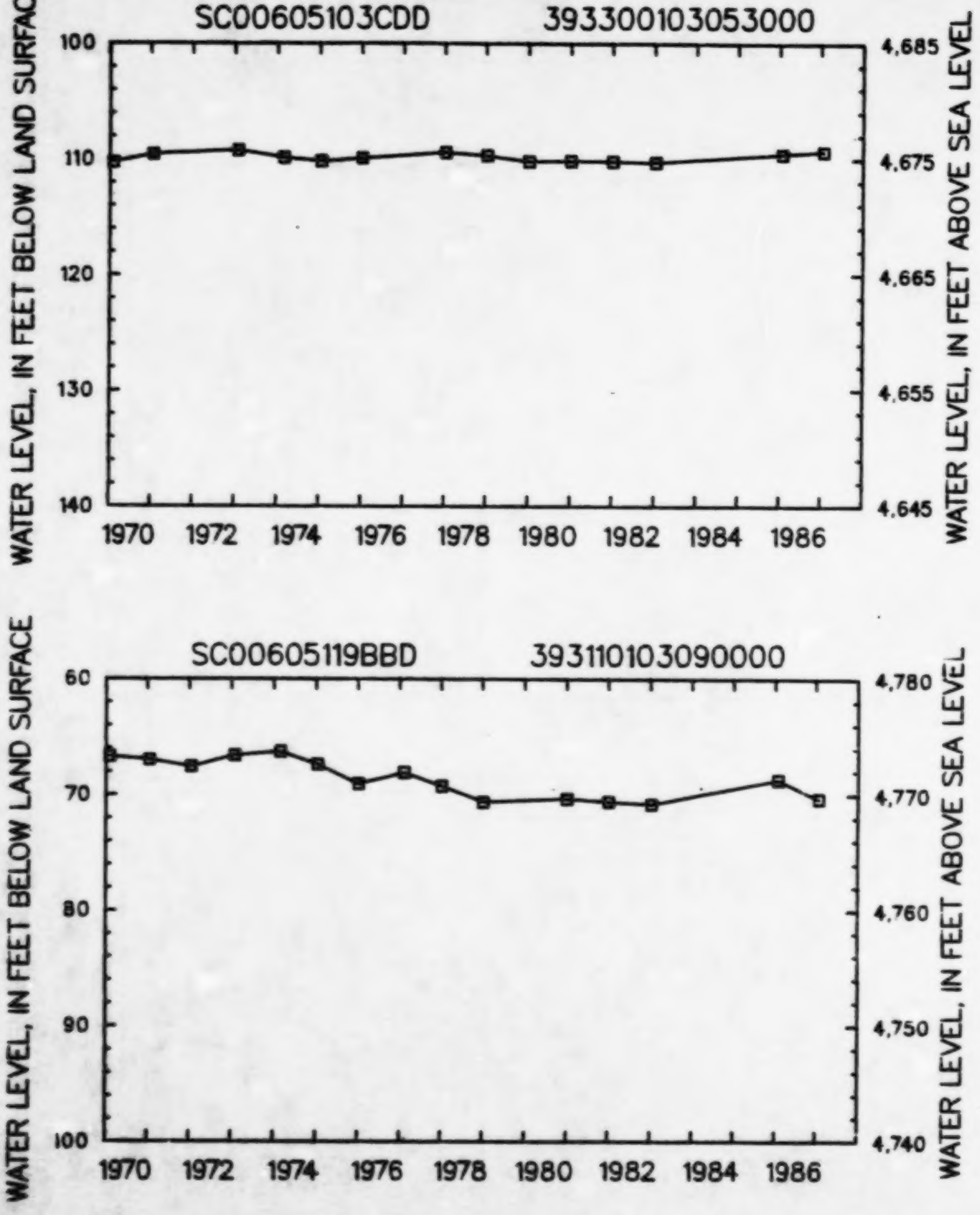


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

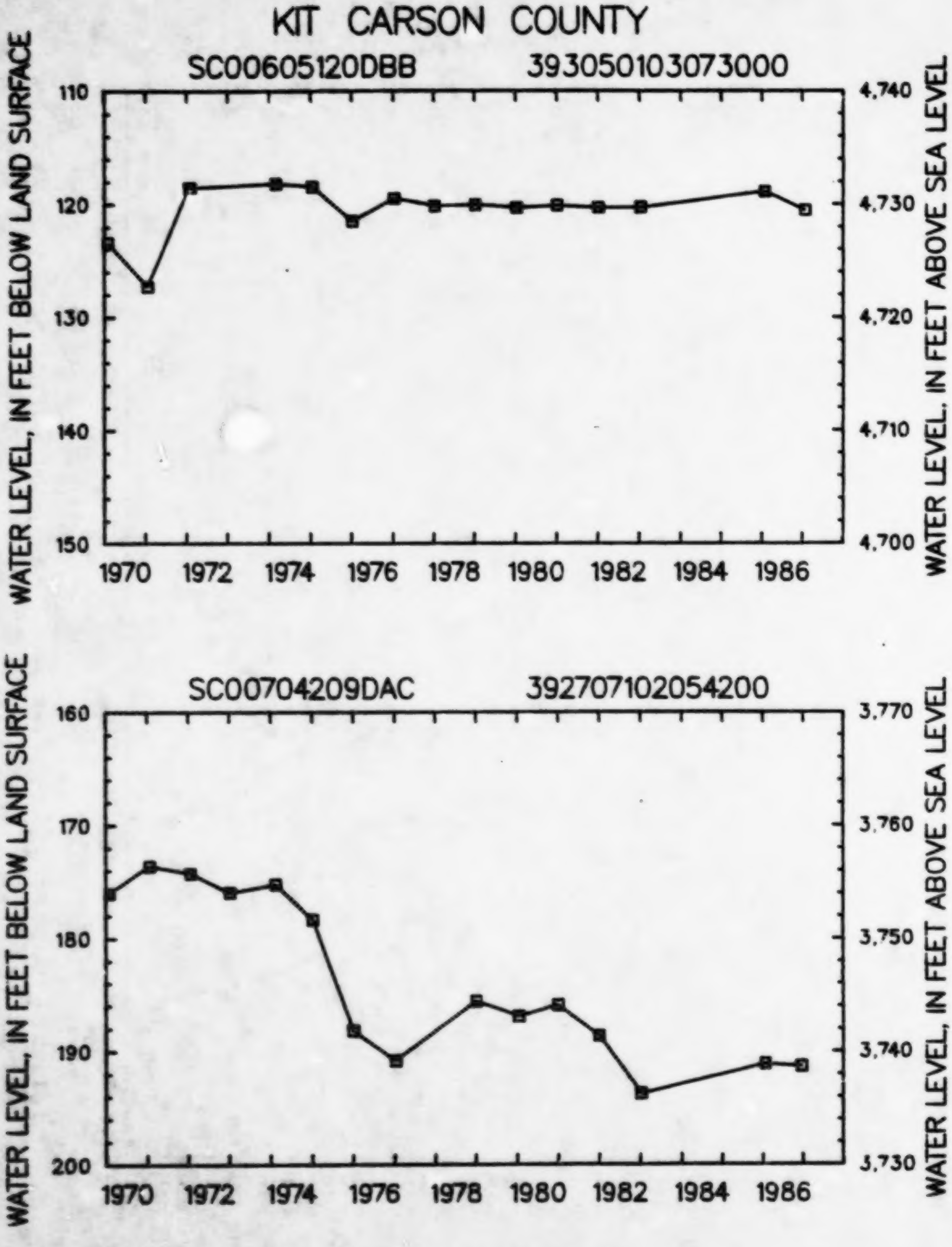


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

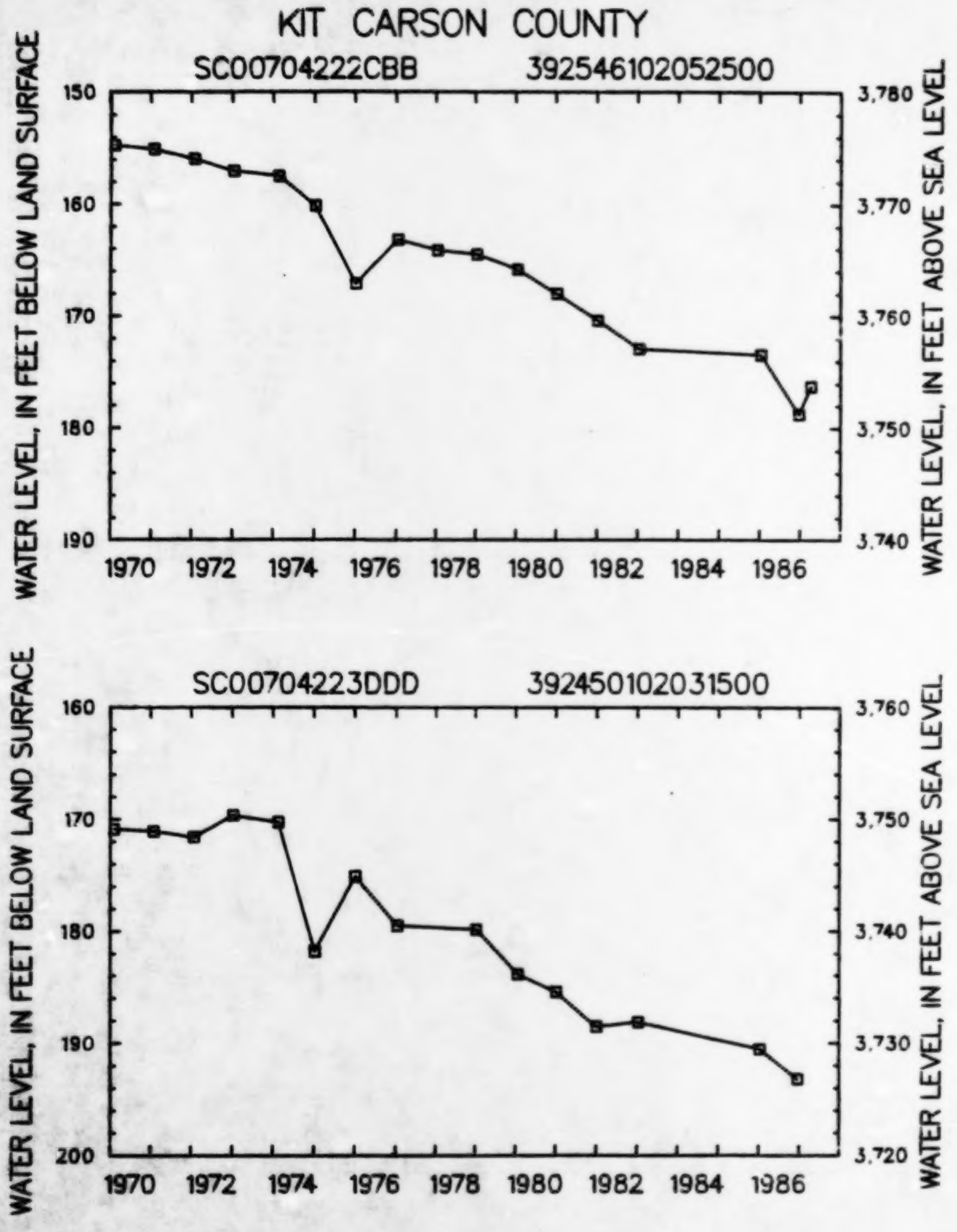
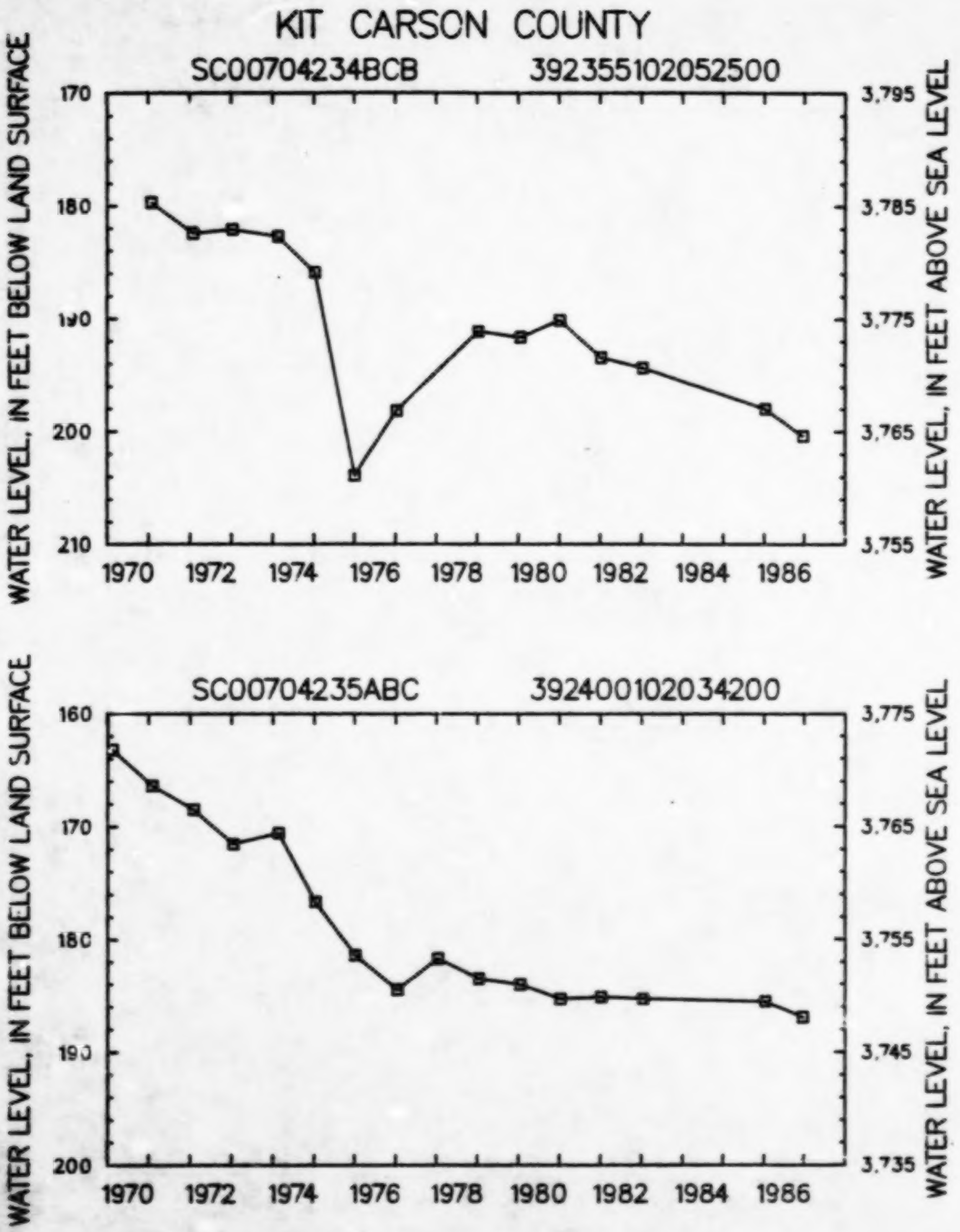


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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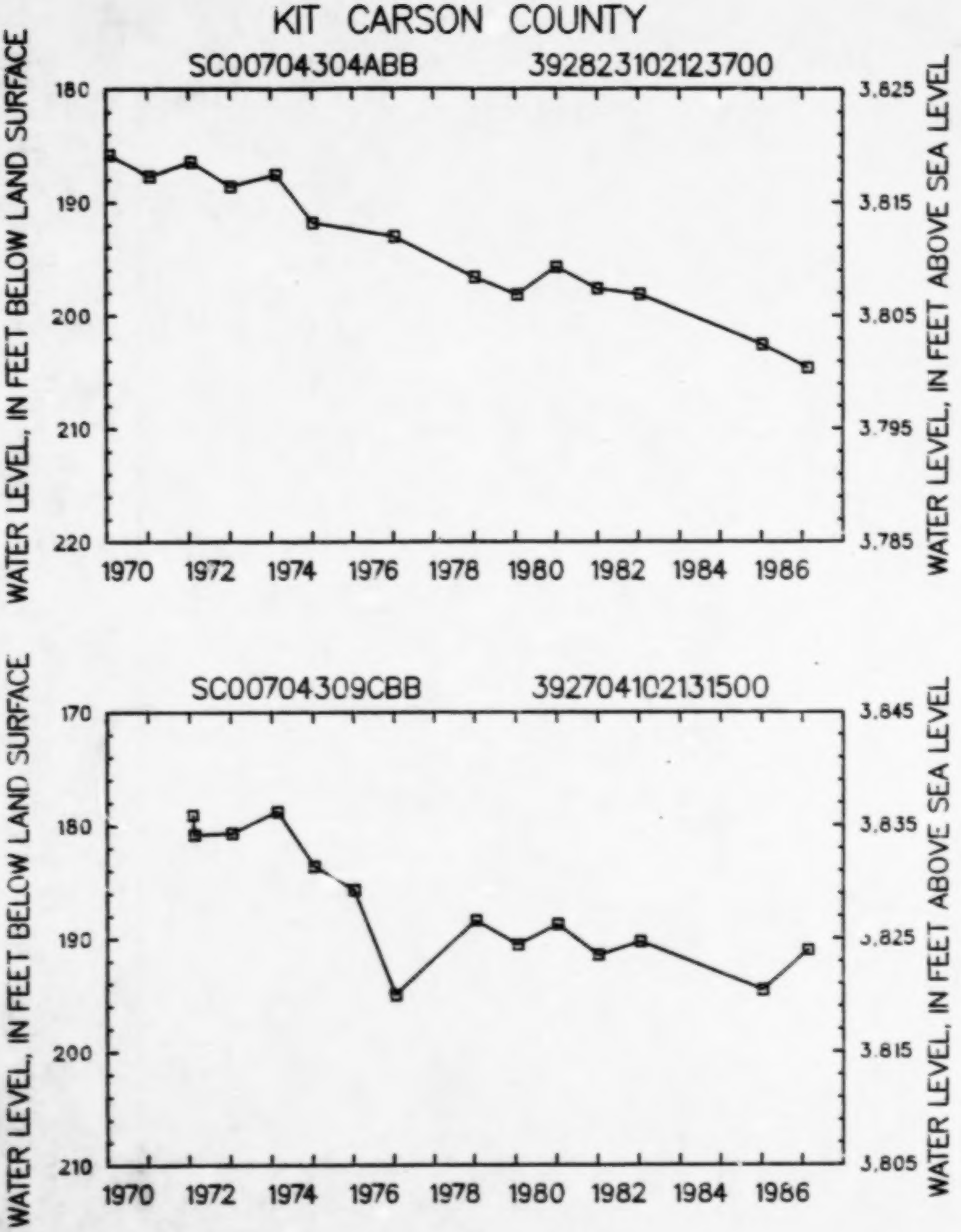


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

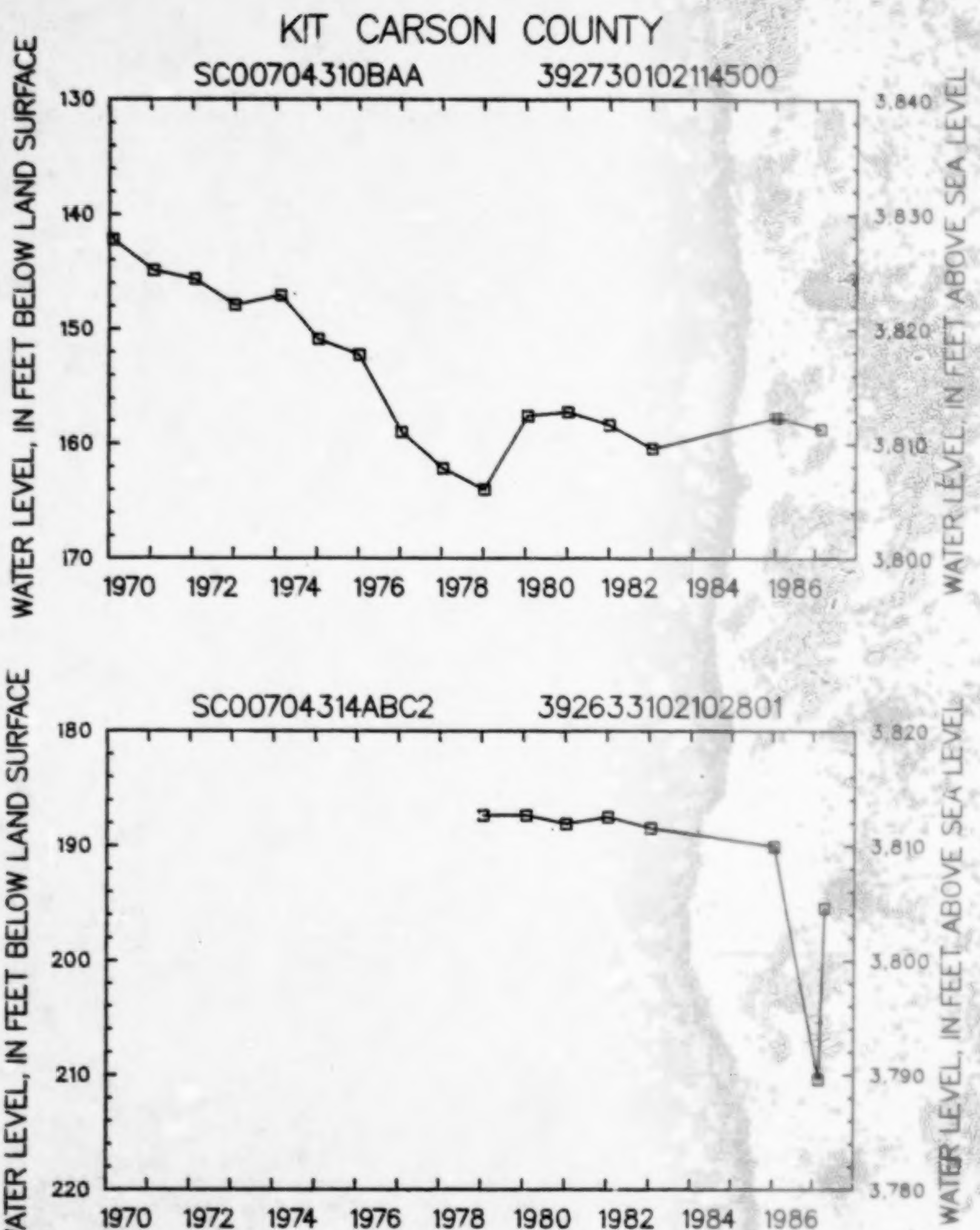
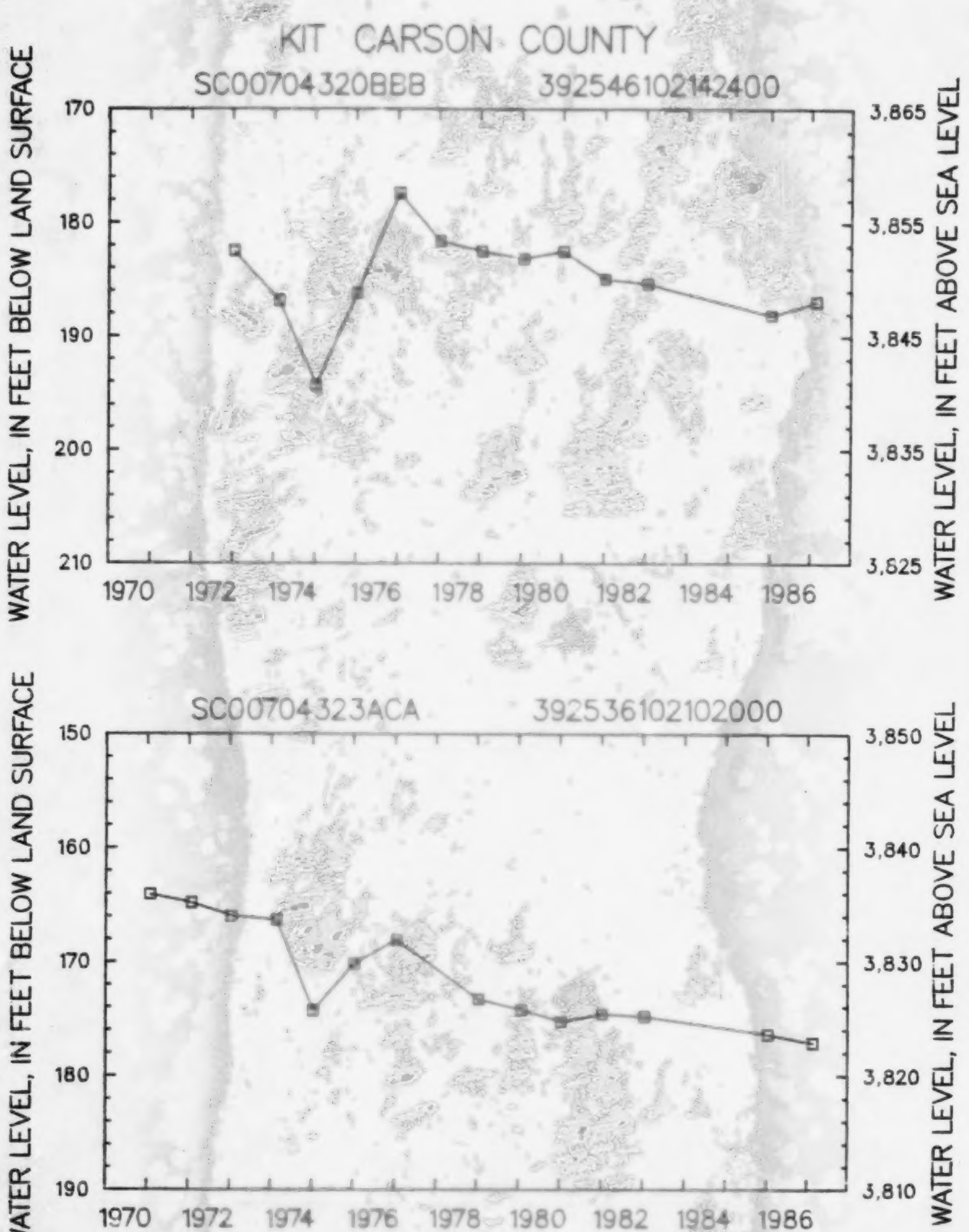


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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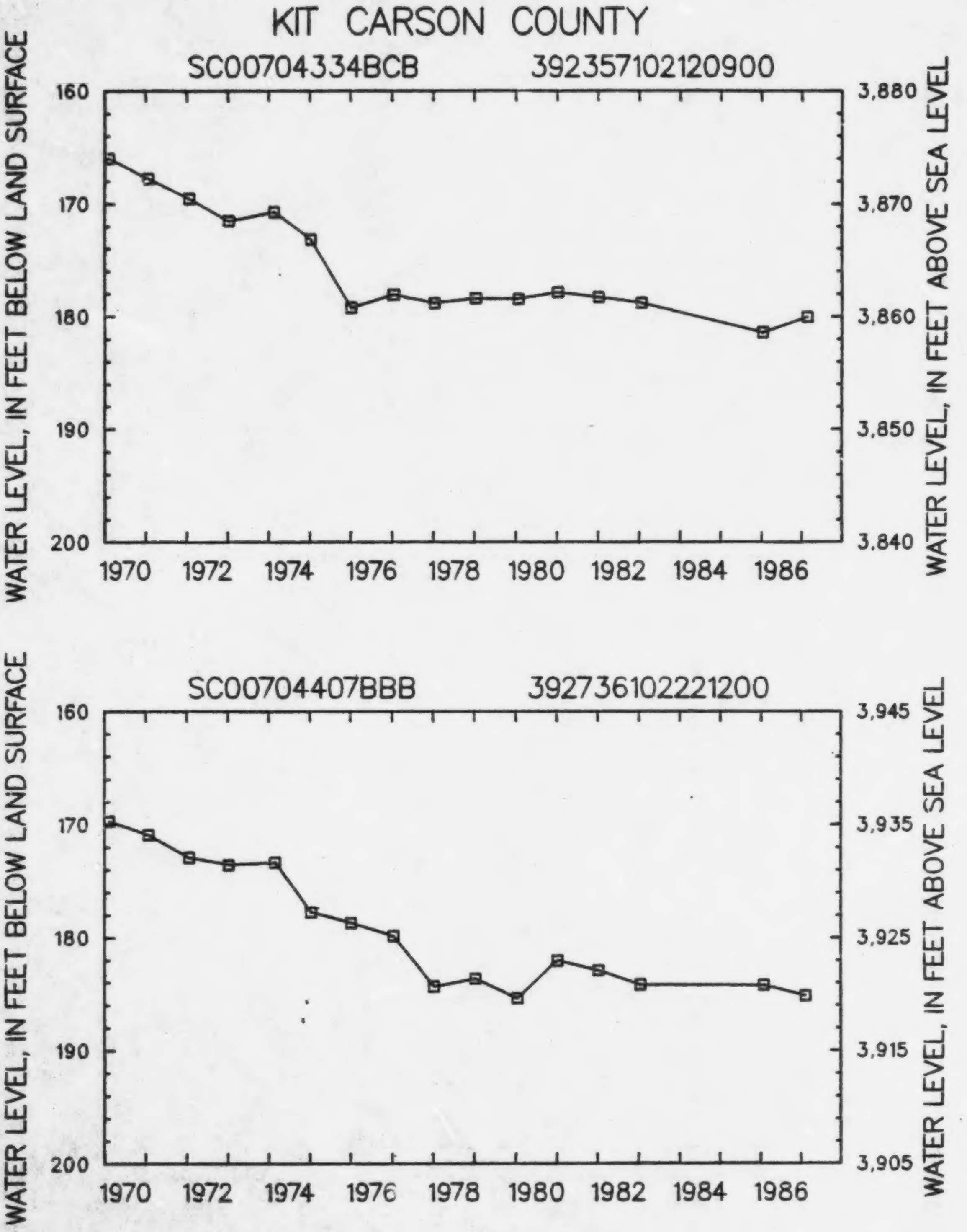

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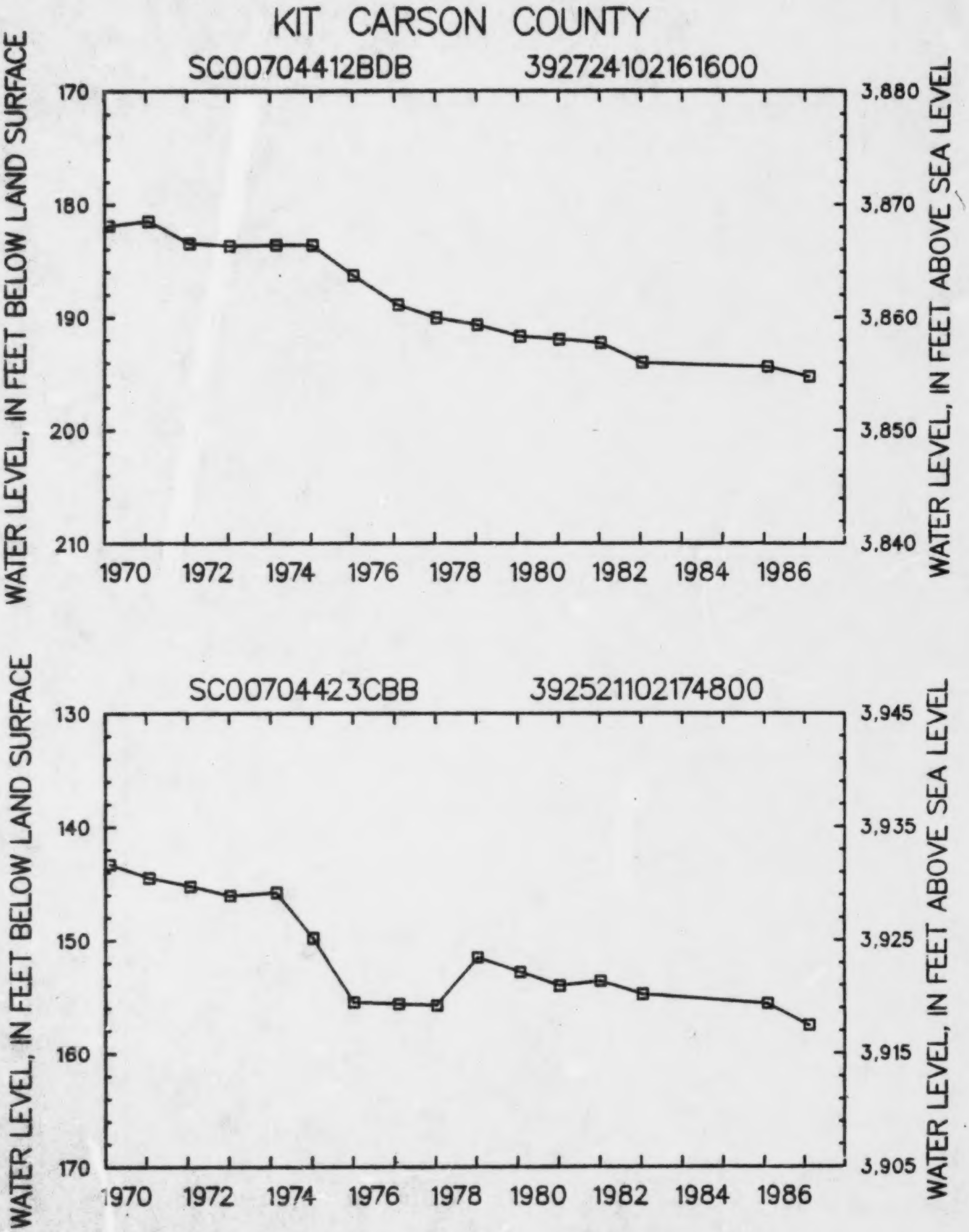

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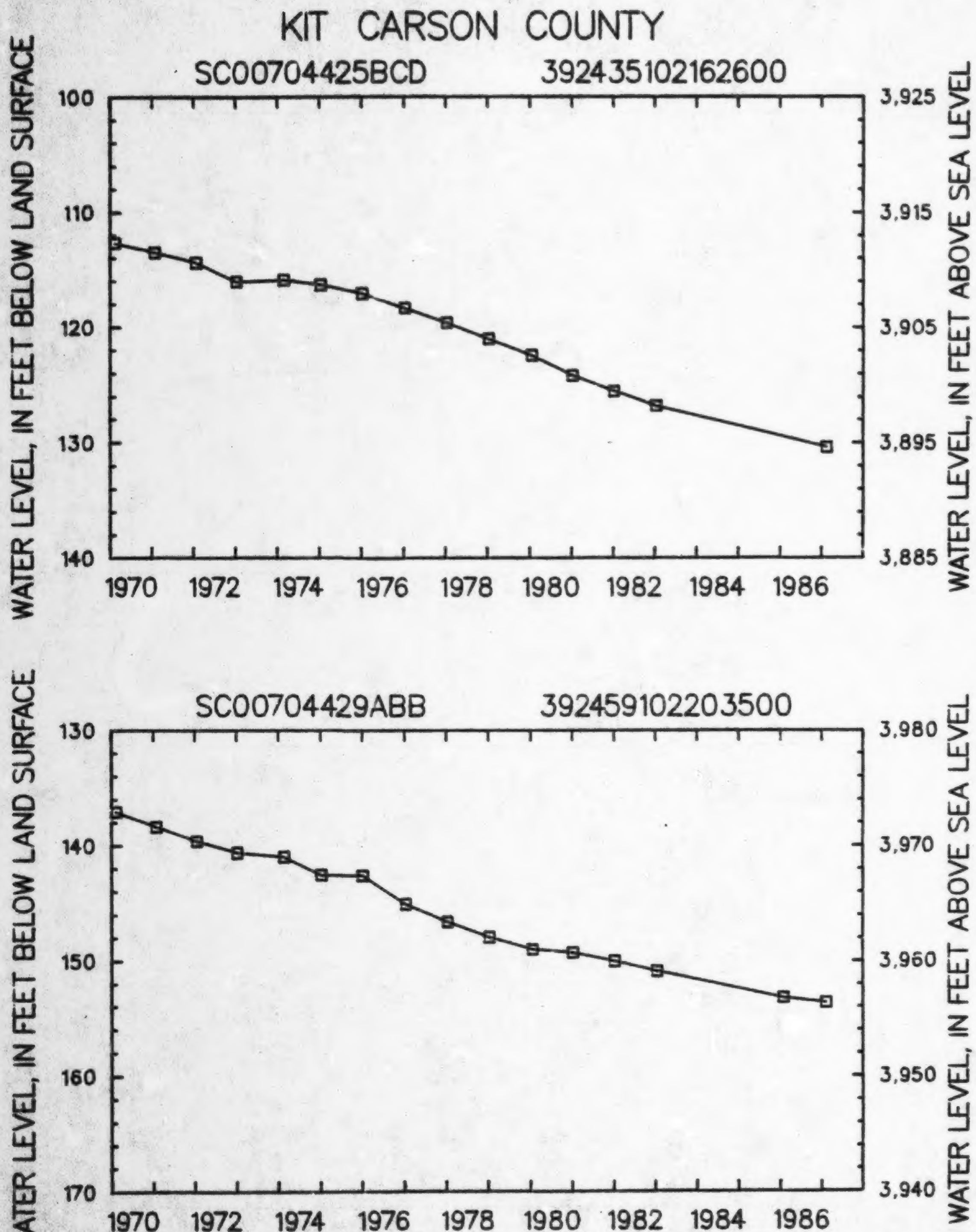

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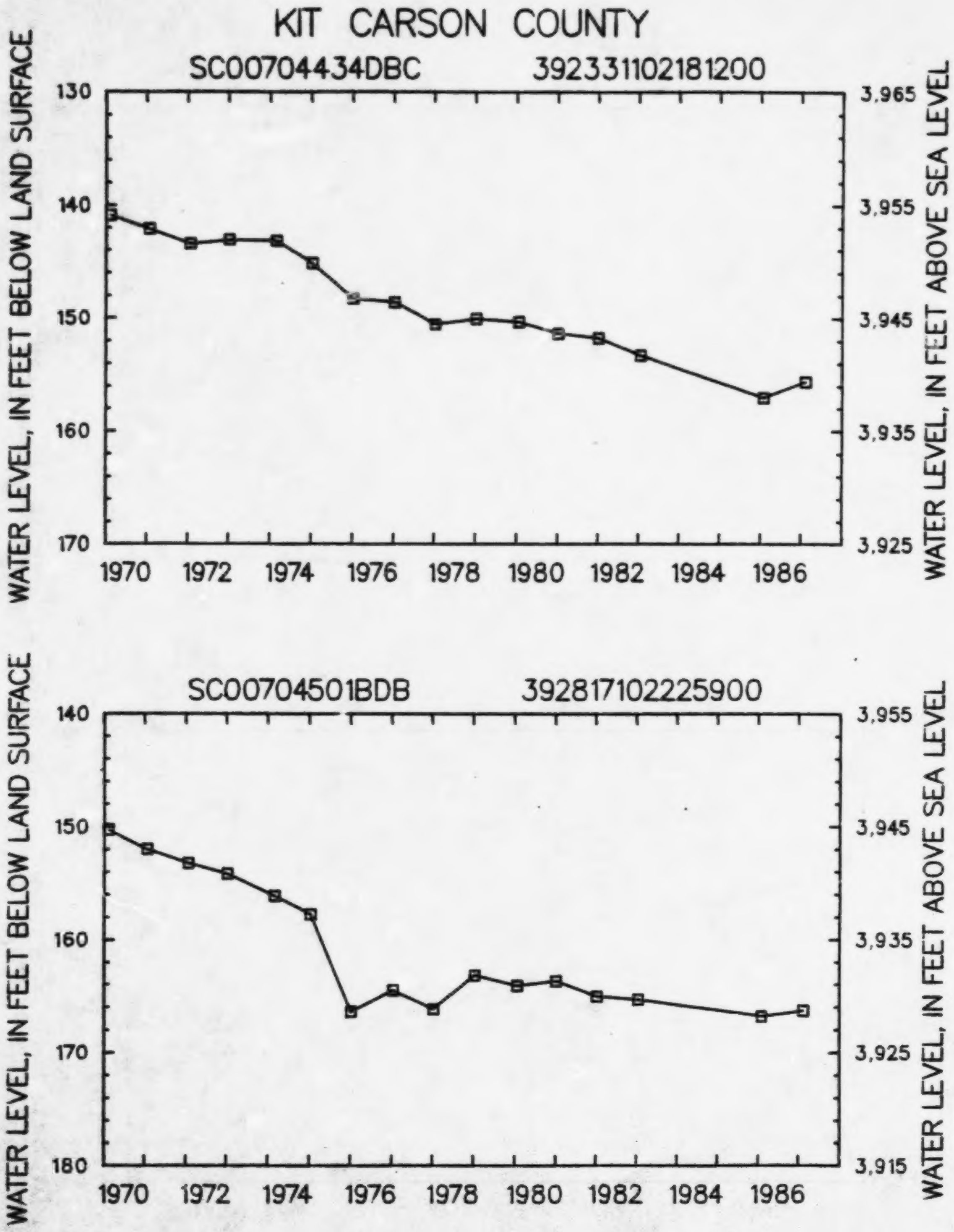

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

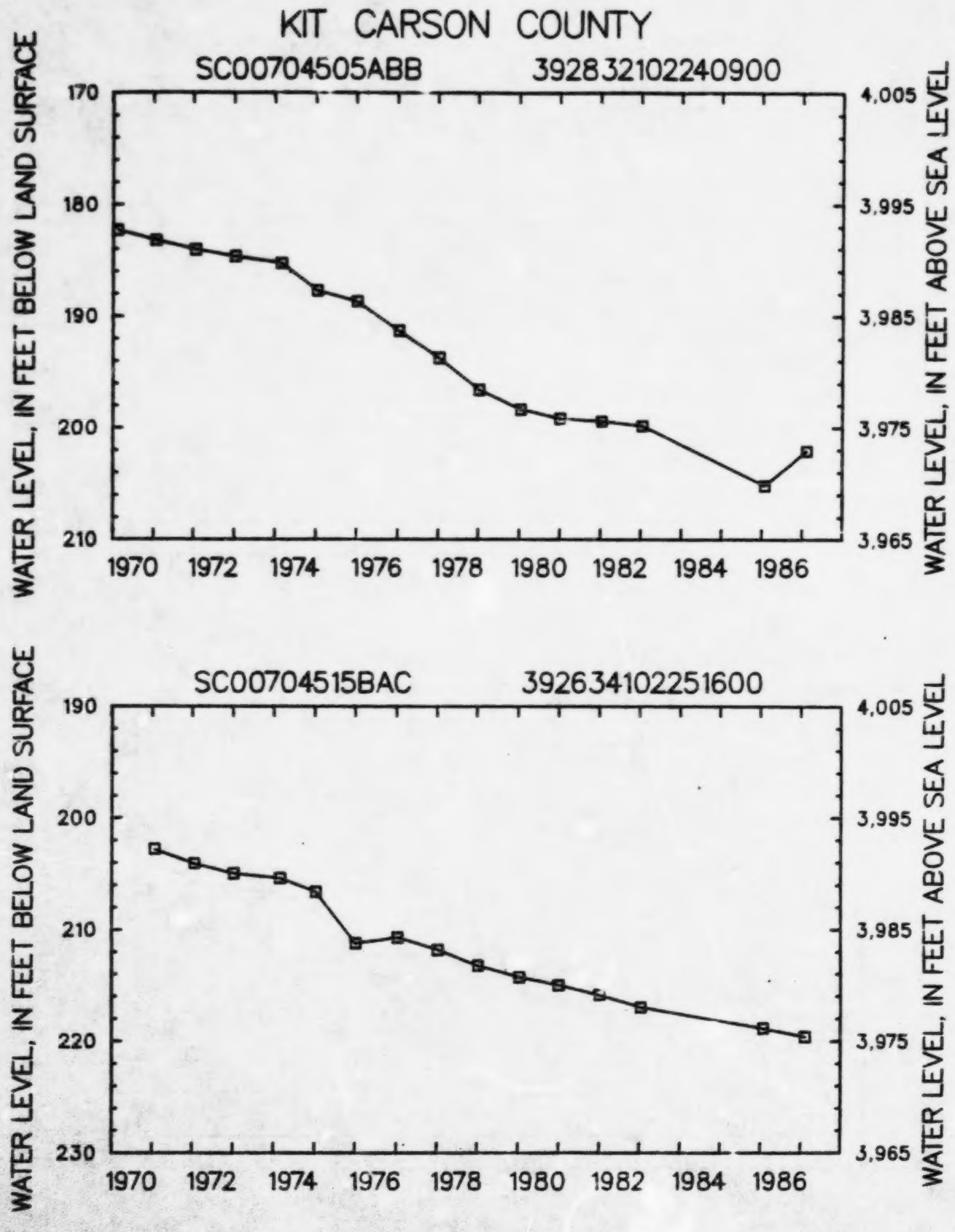

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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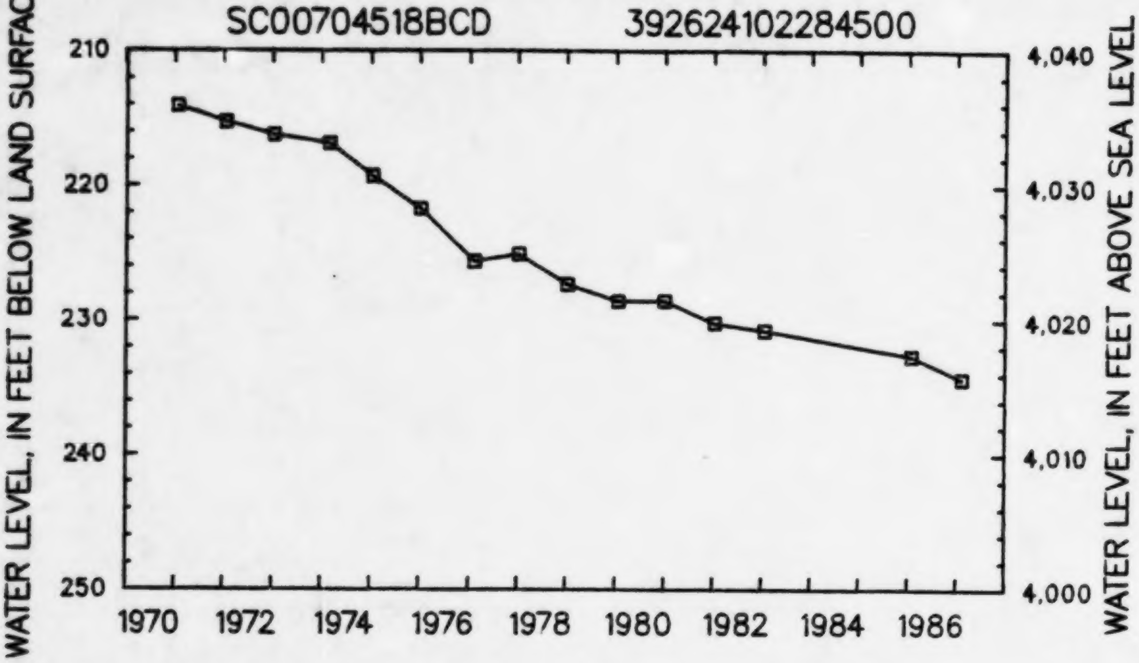

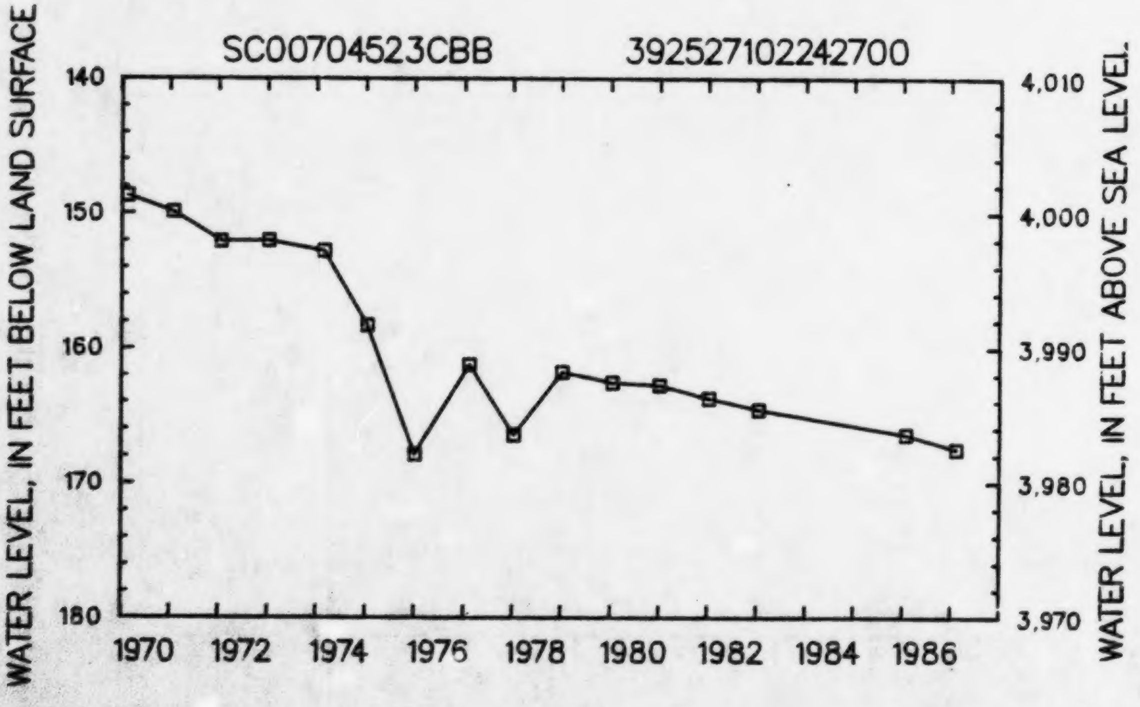

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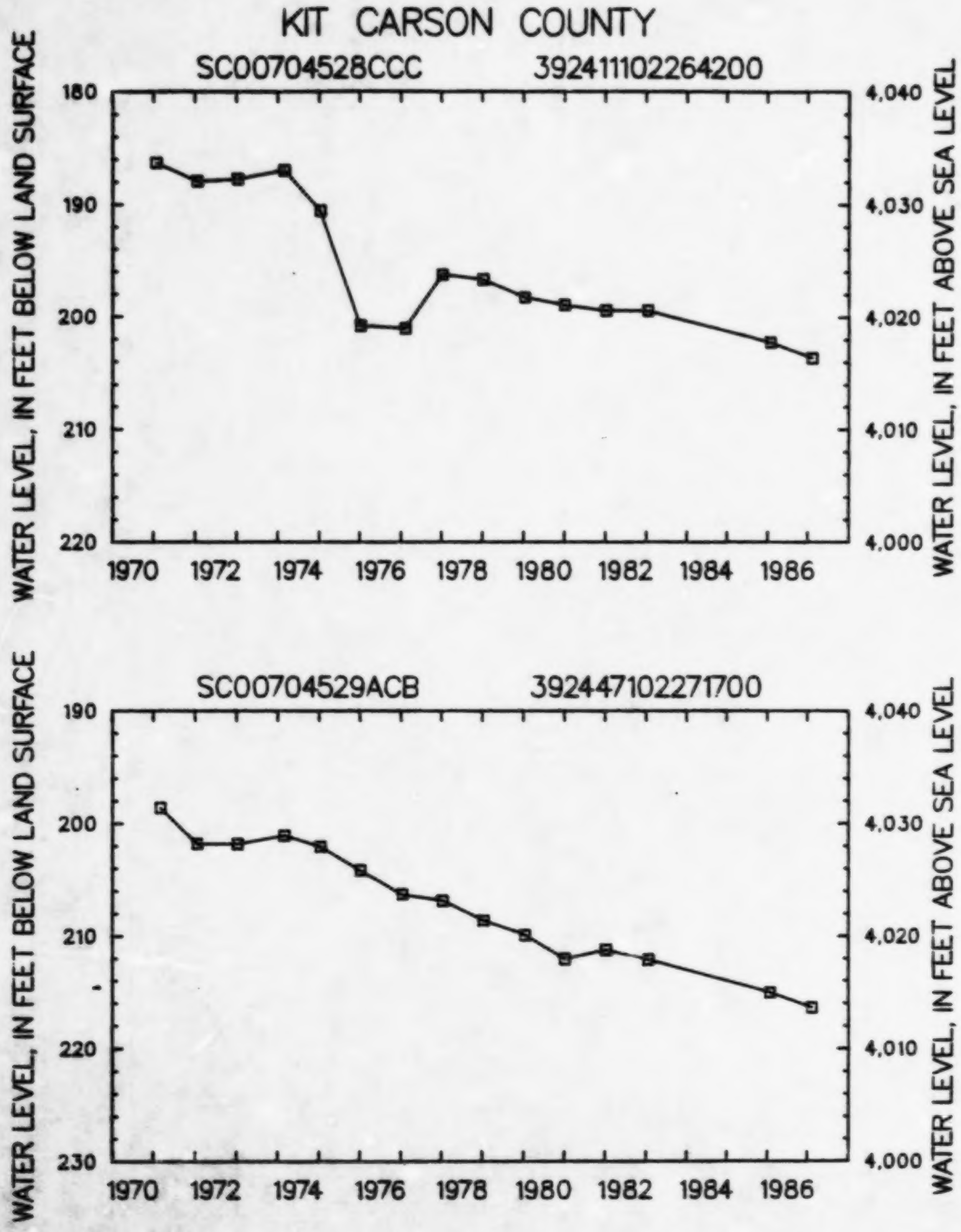
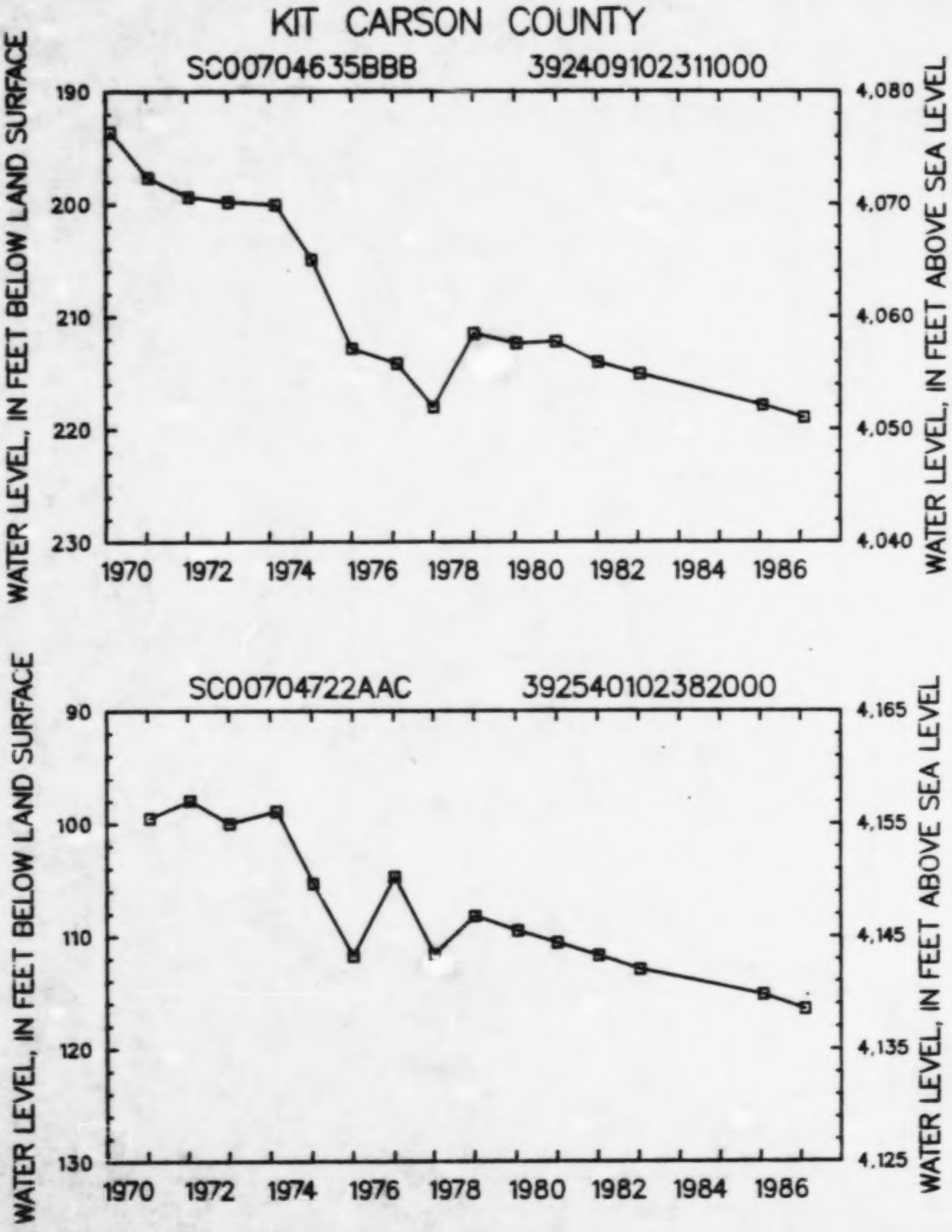


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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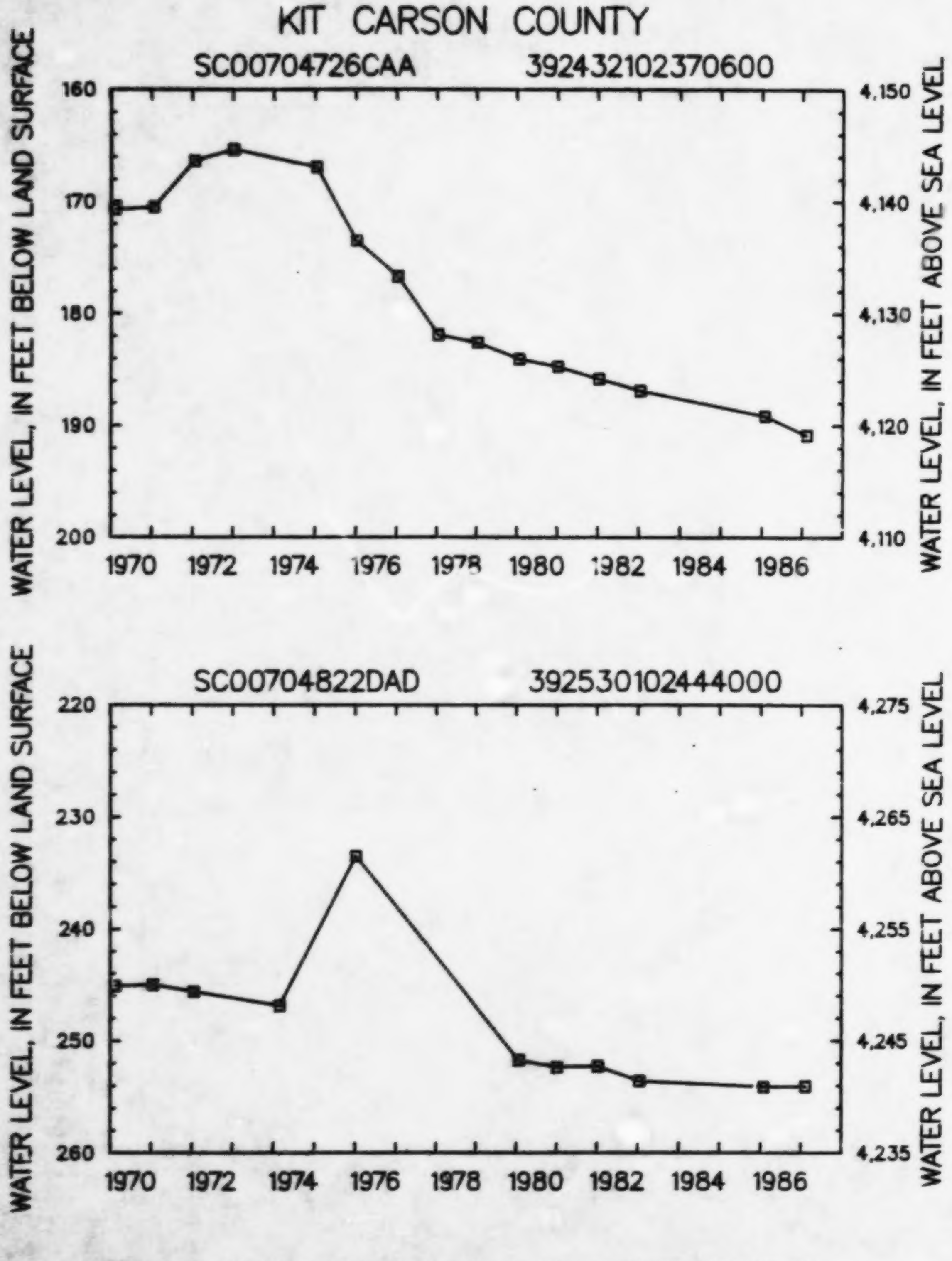

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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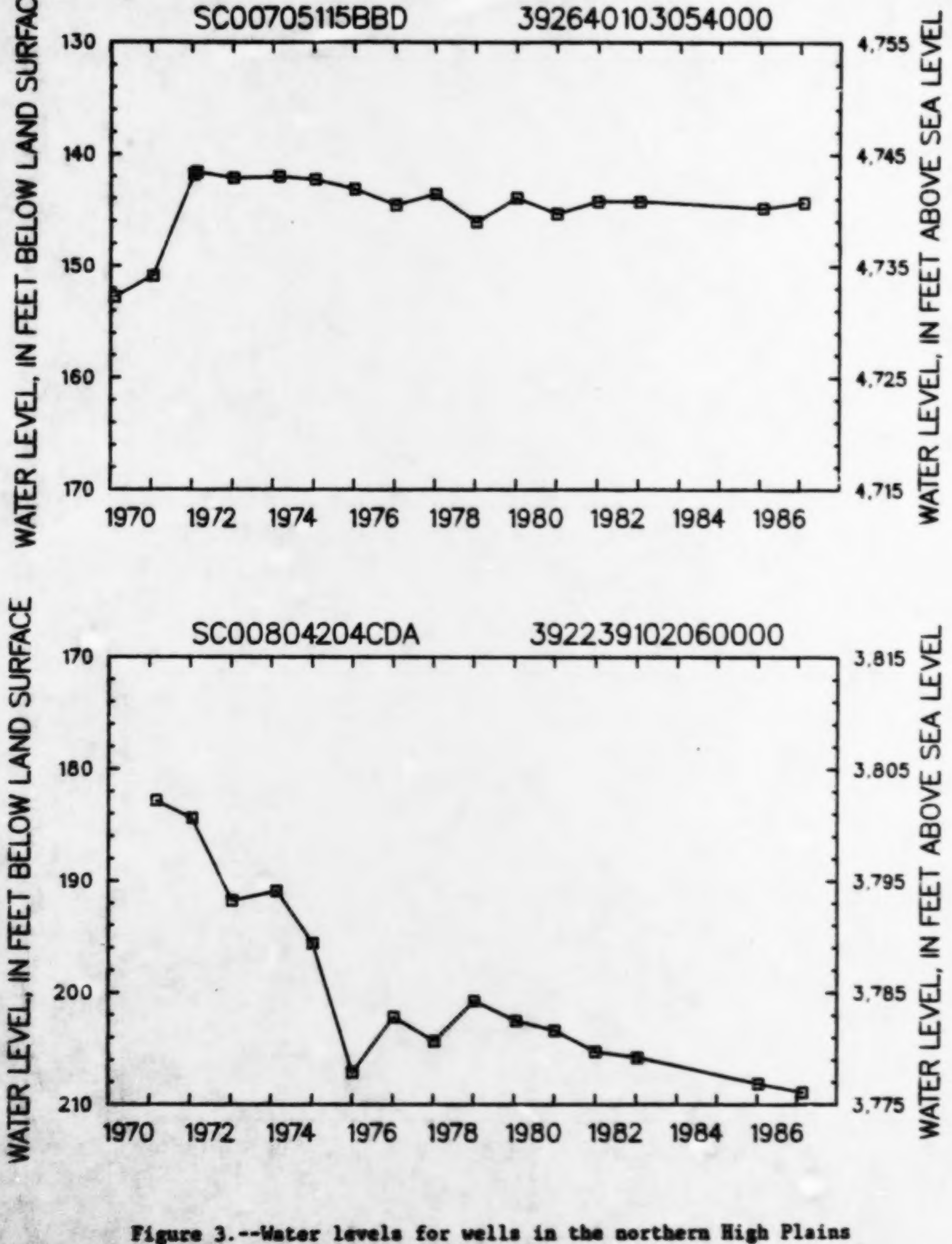

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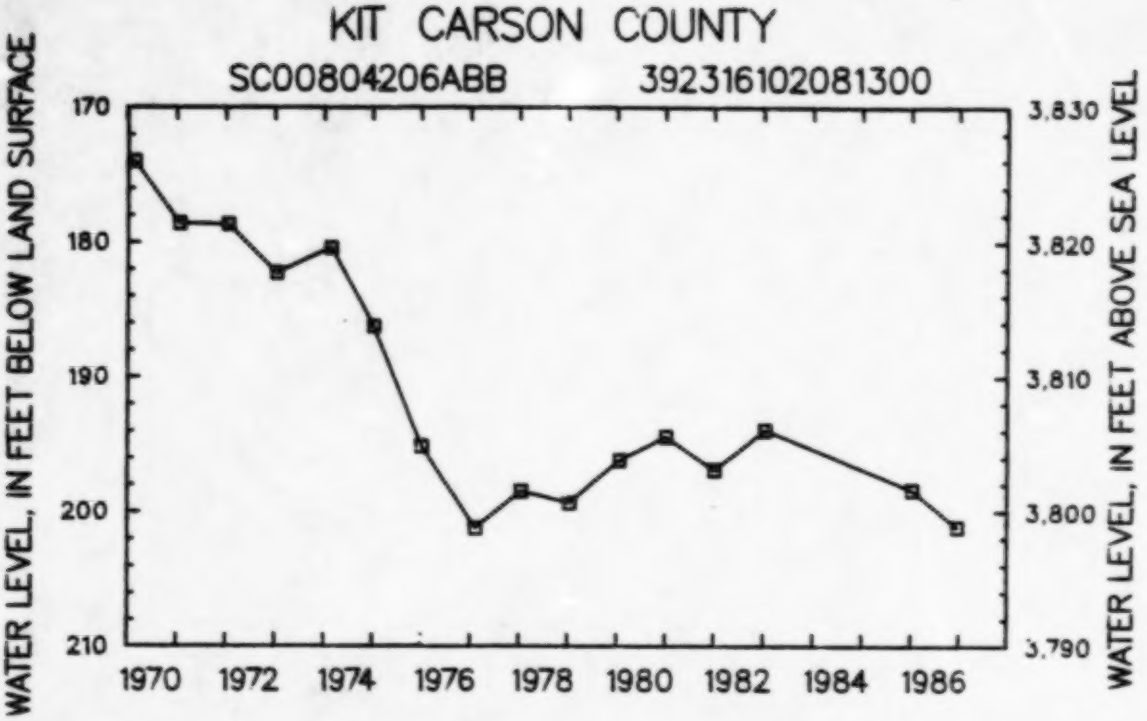

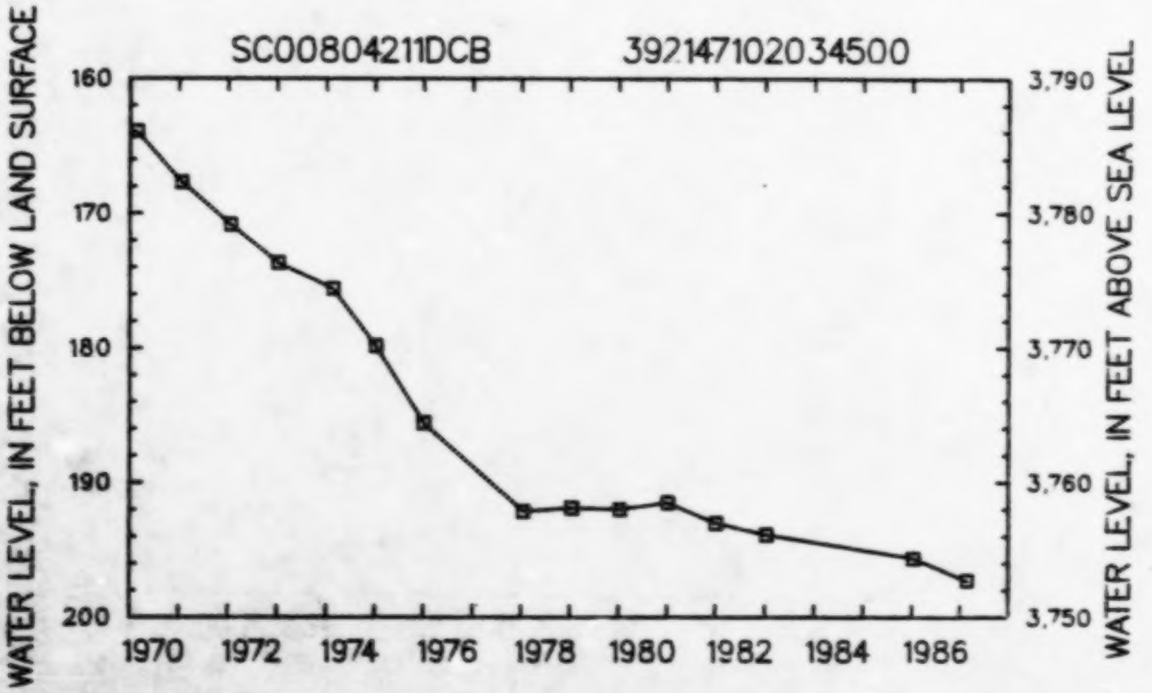

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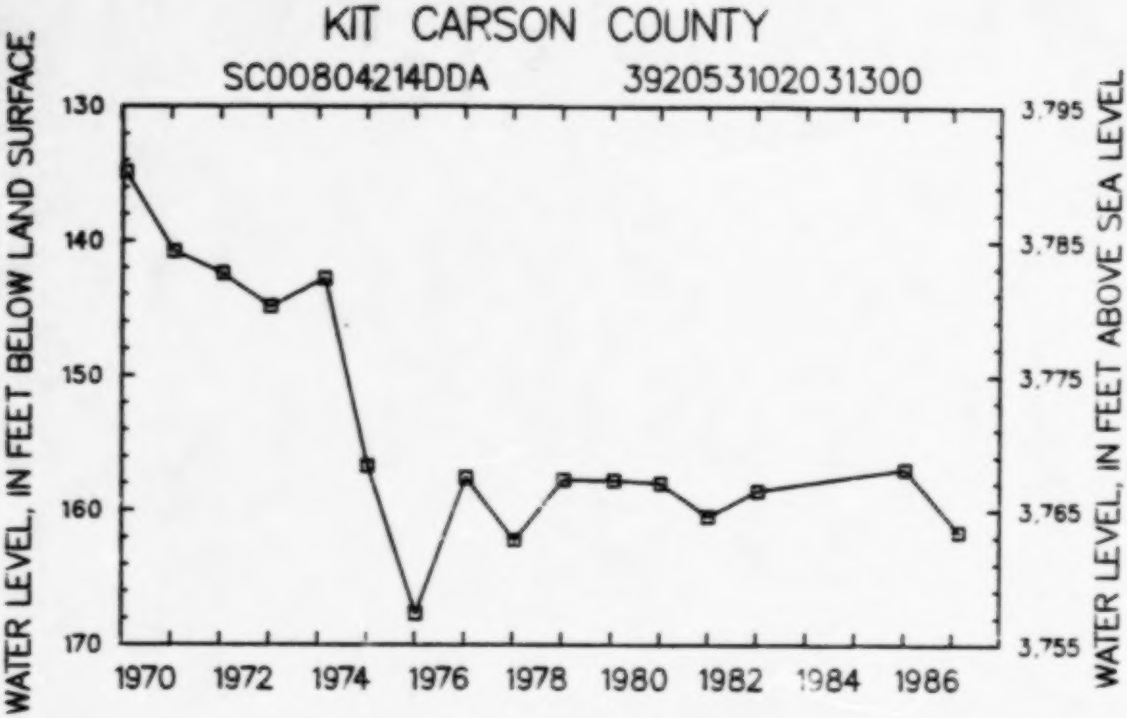

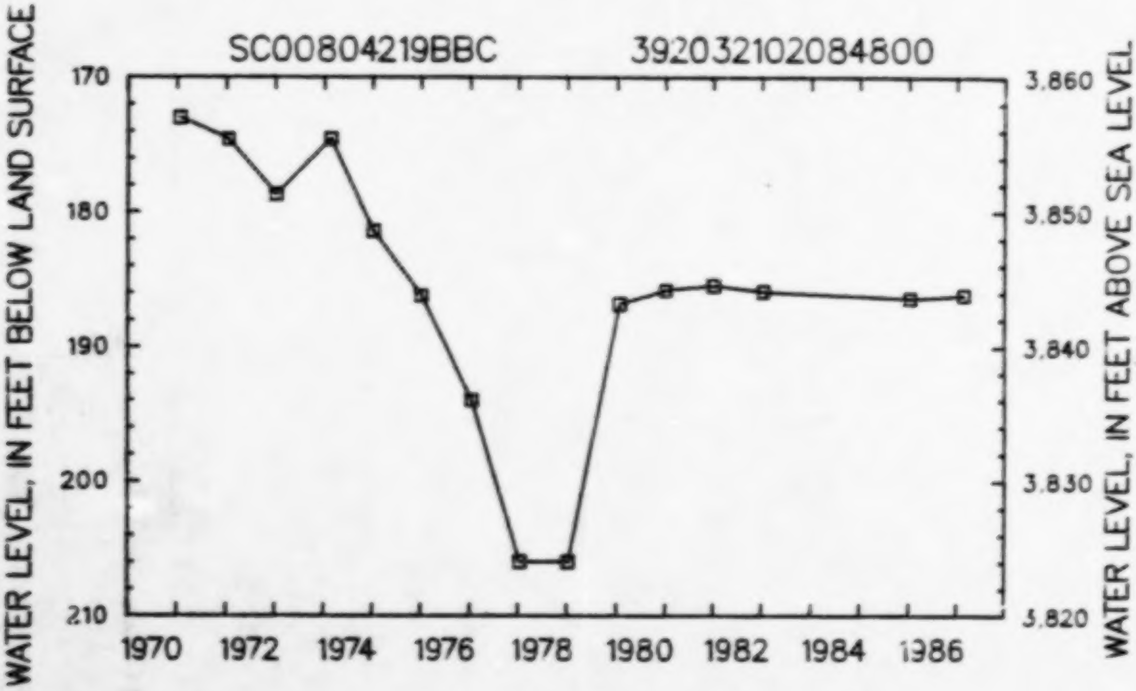

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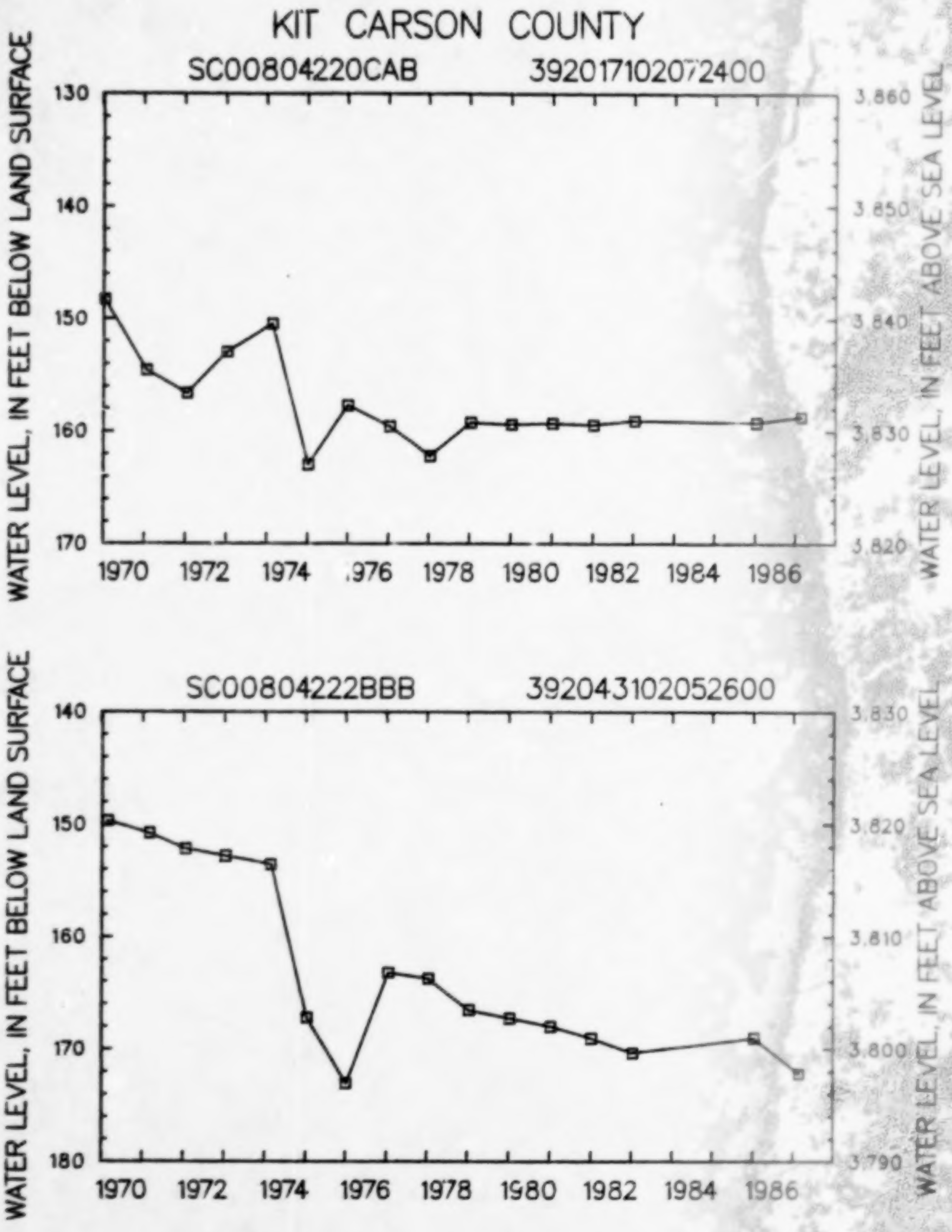

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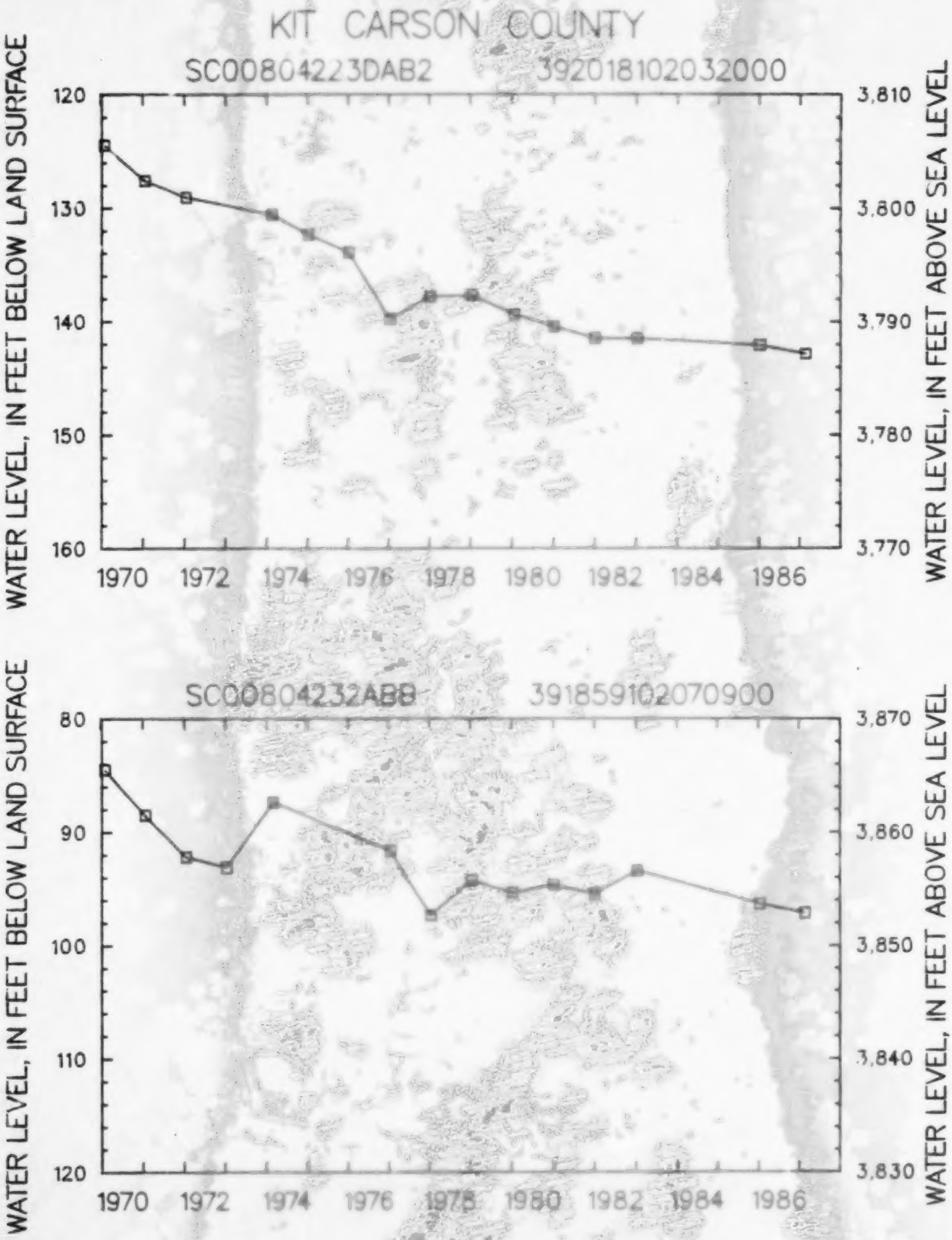
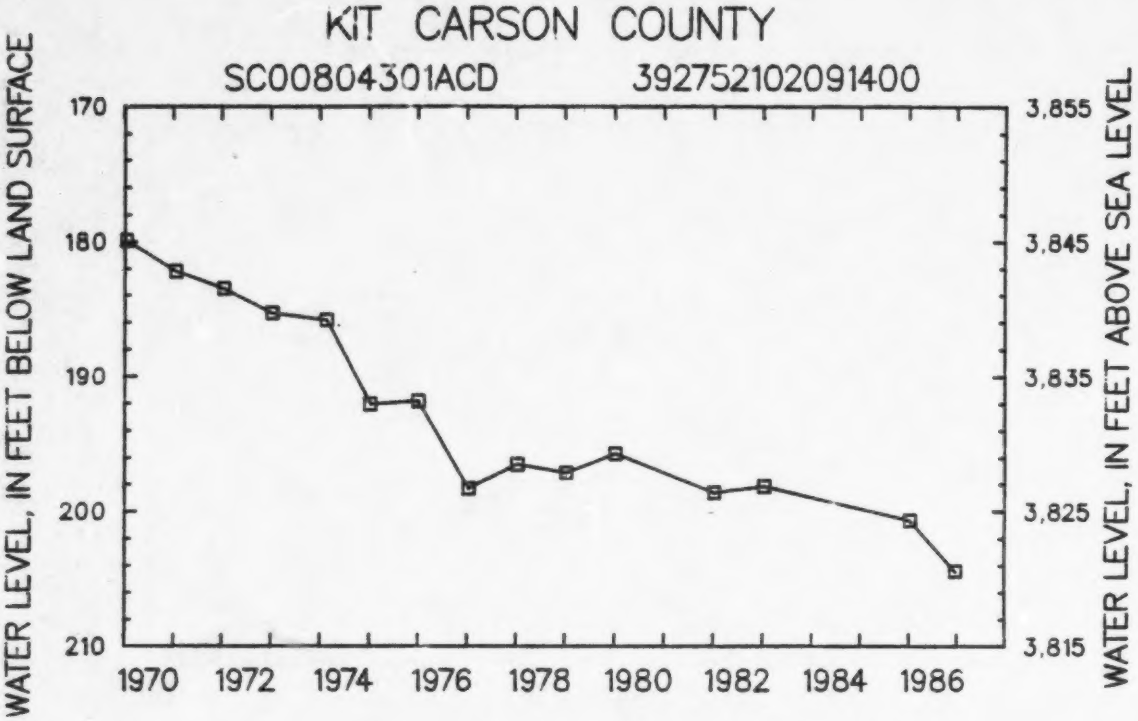
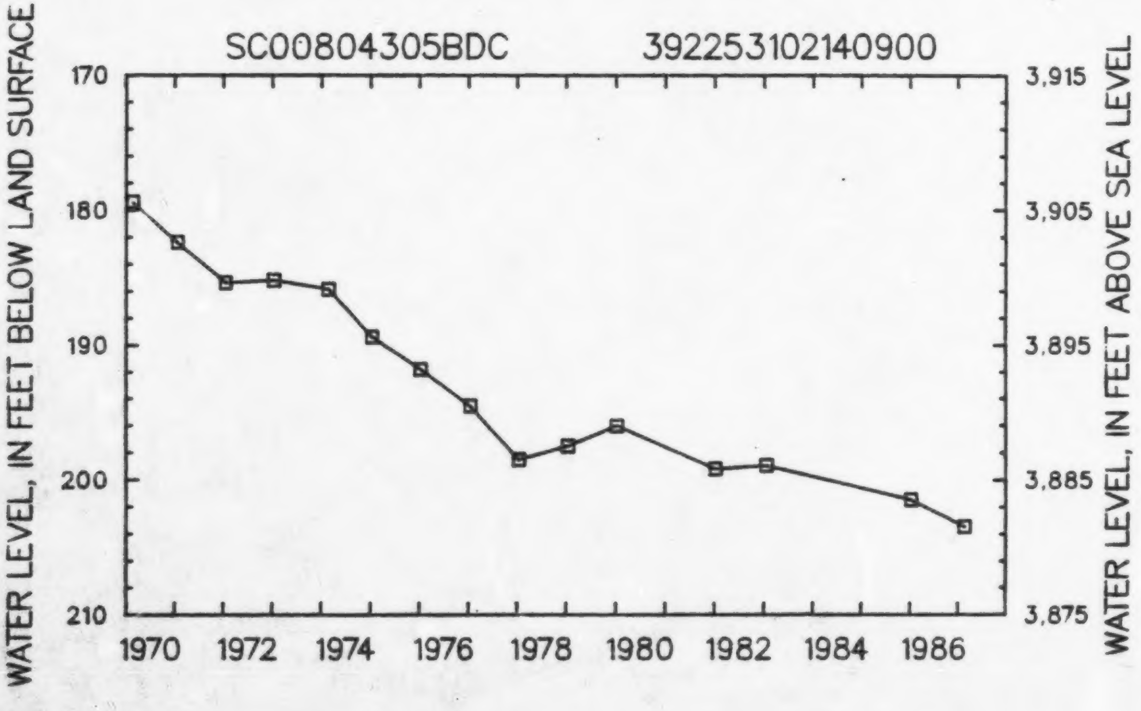


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.





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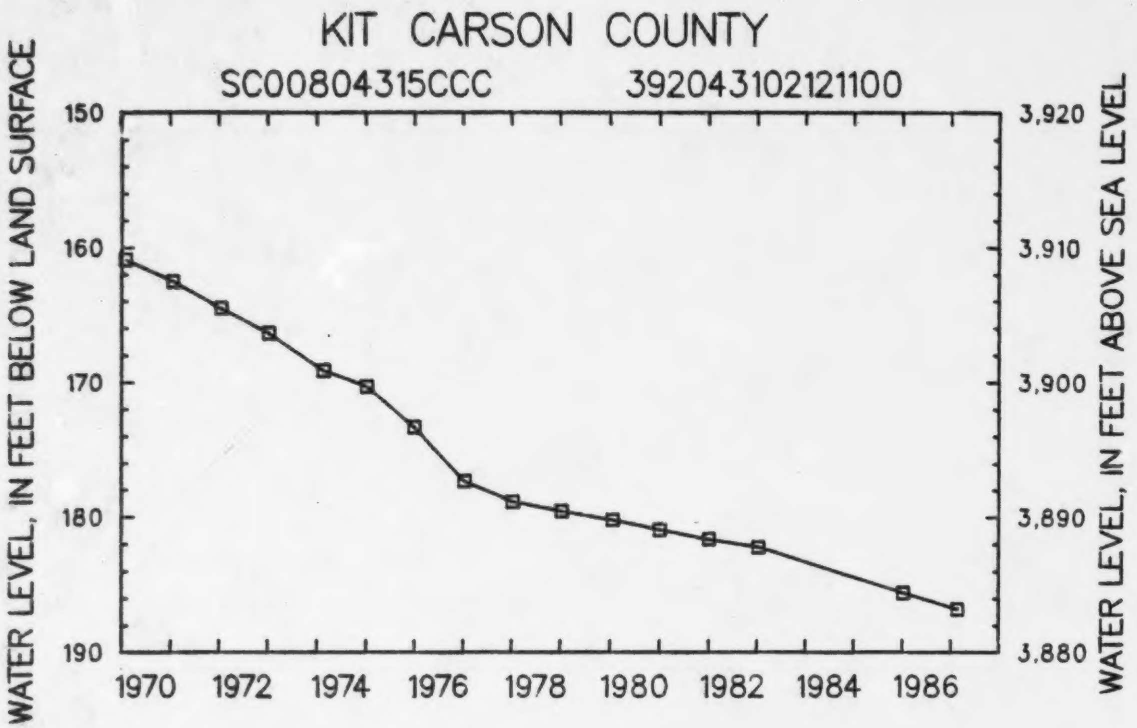

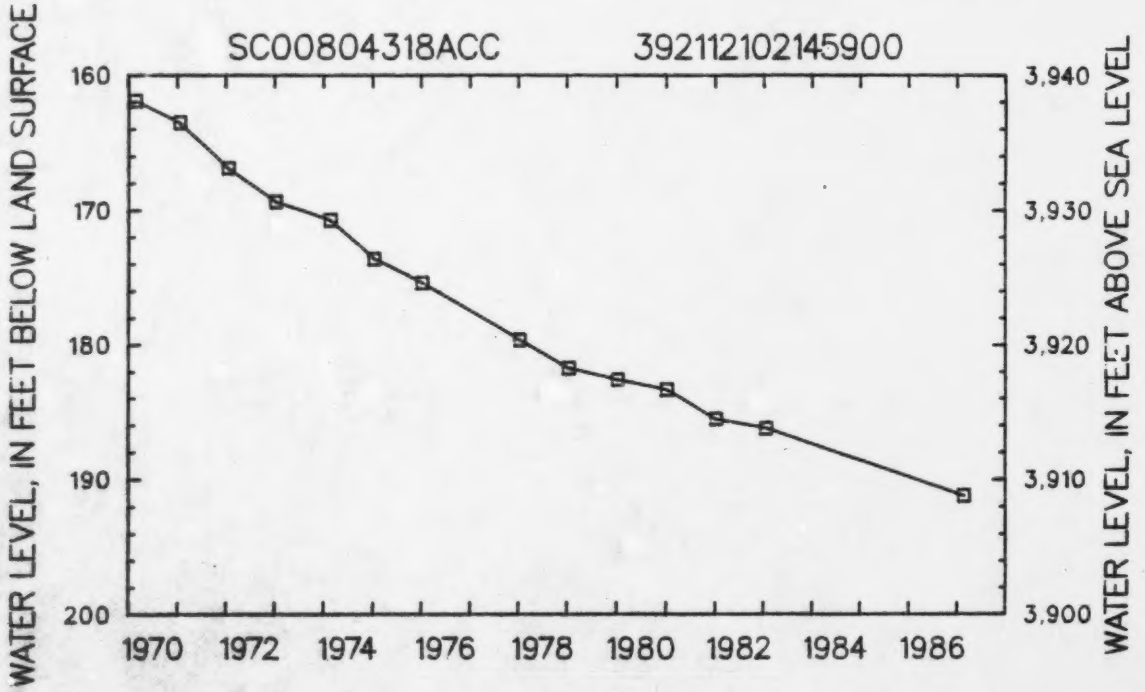

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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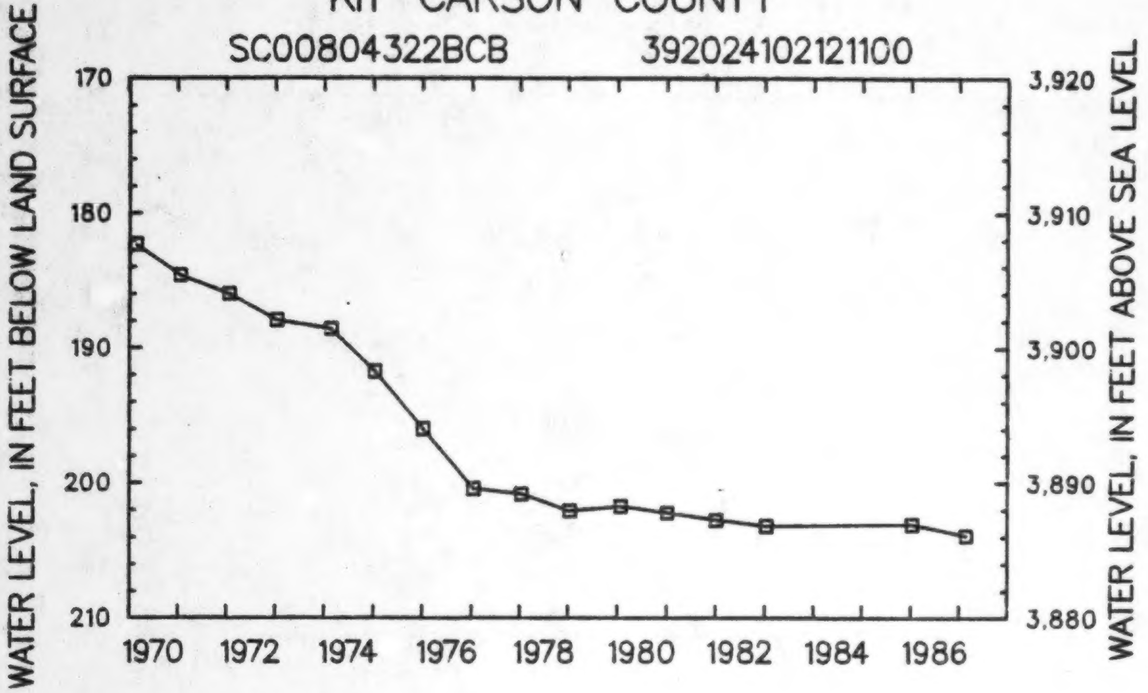
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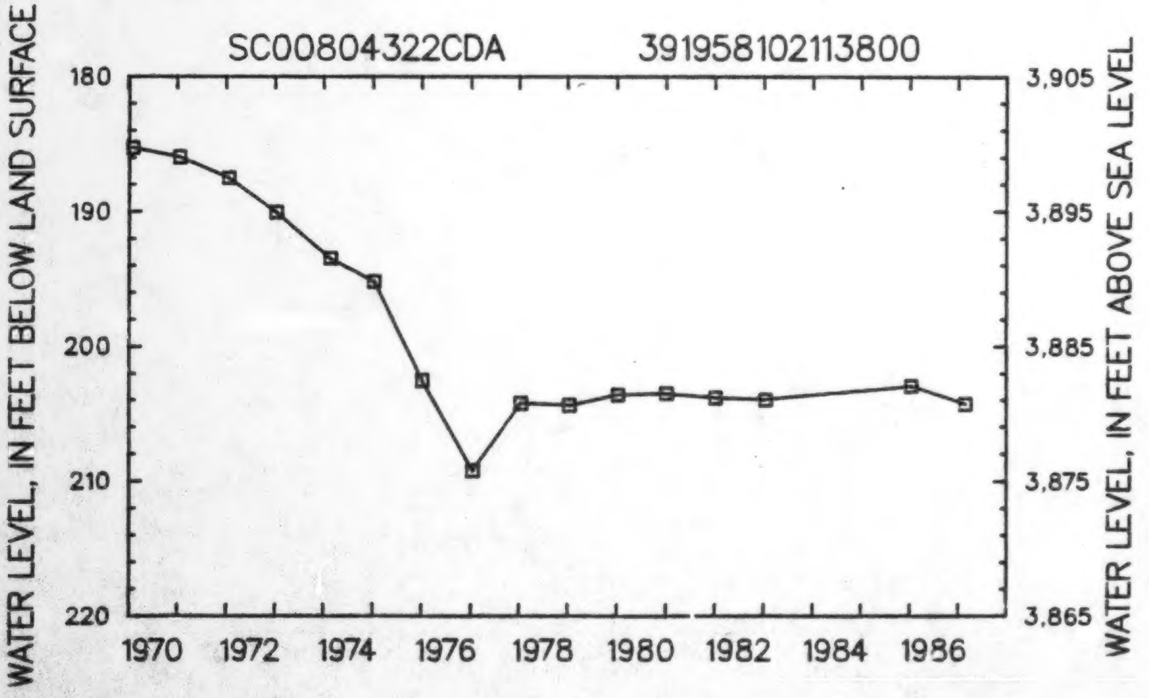
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Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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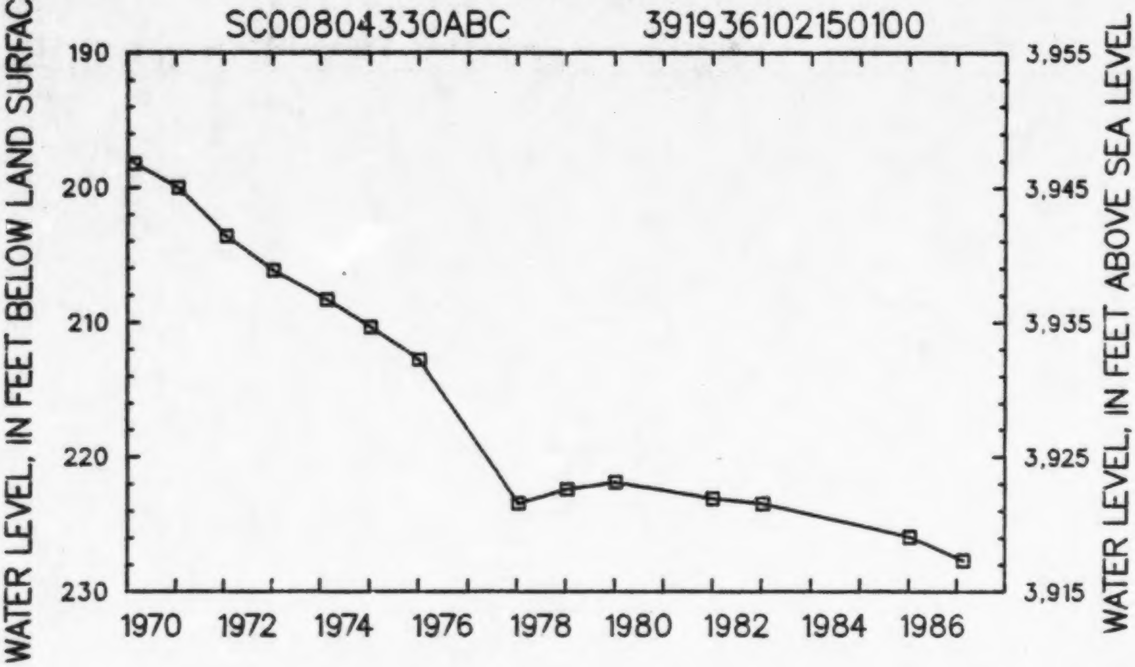

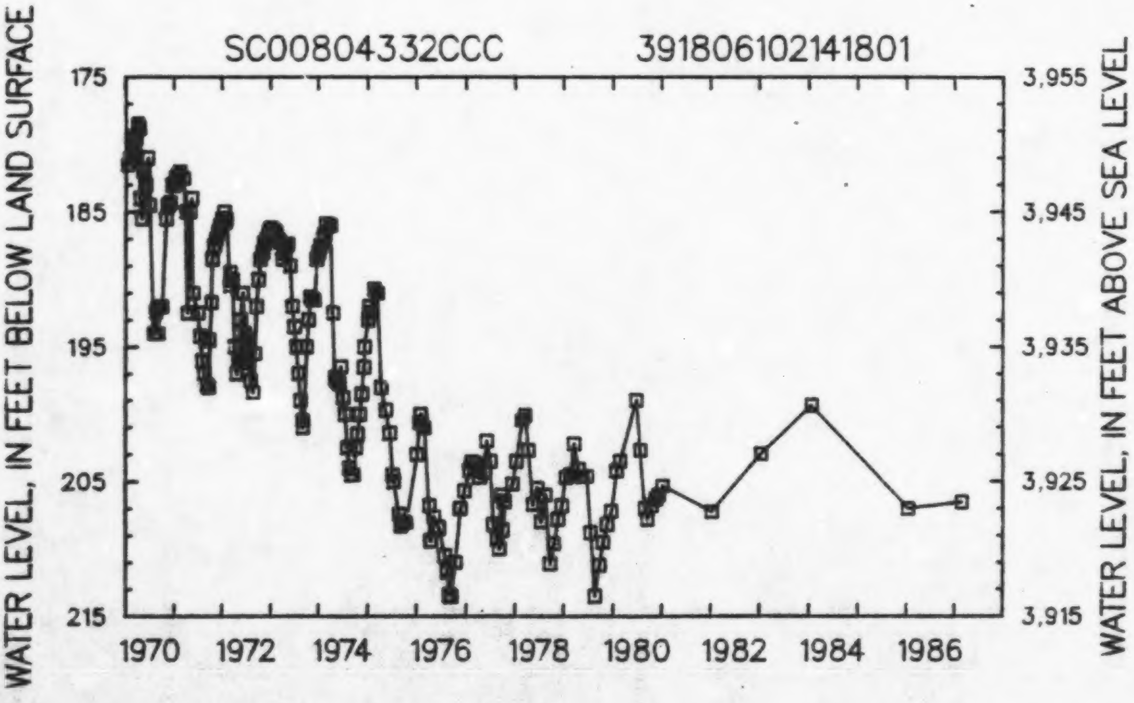

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

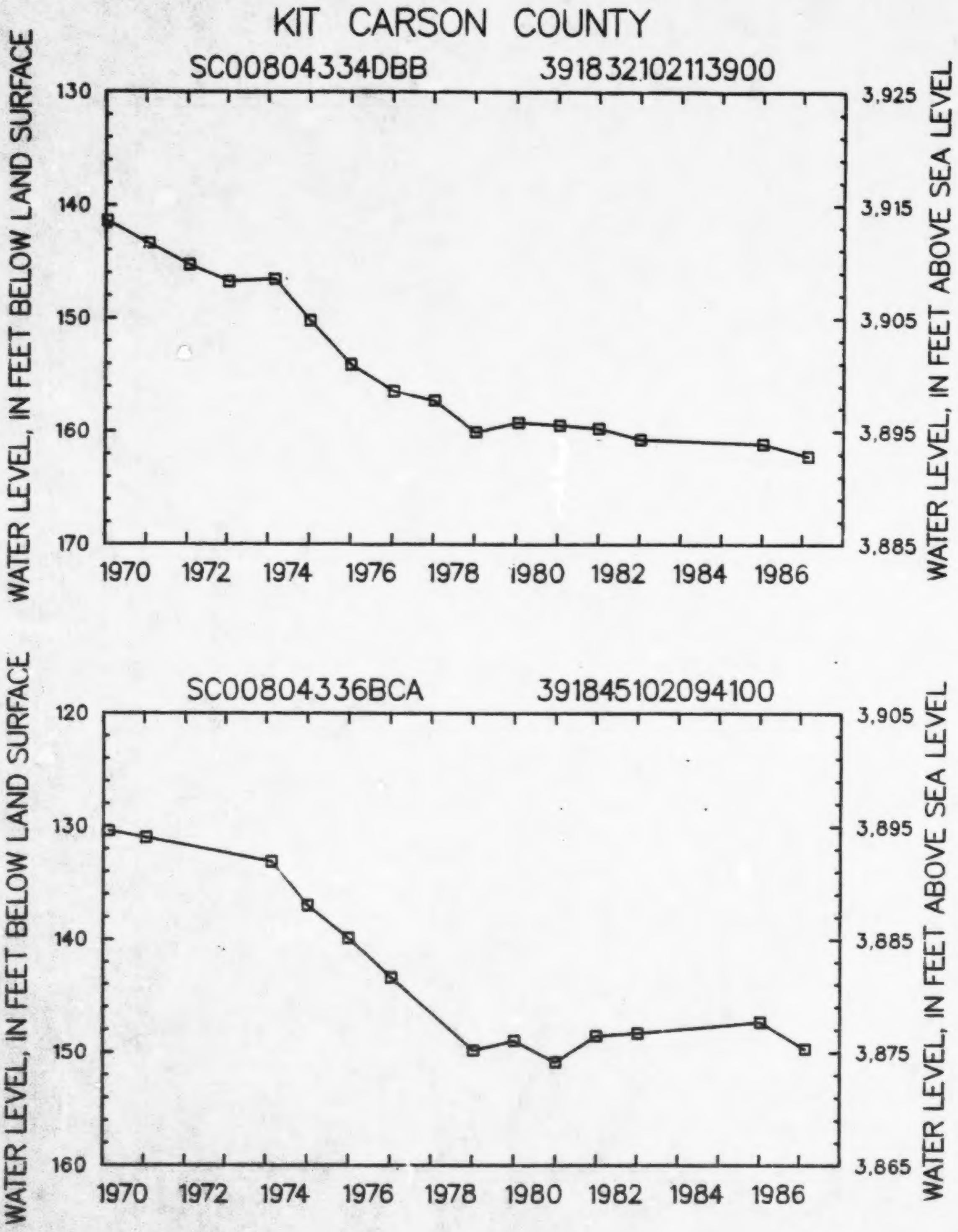

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

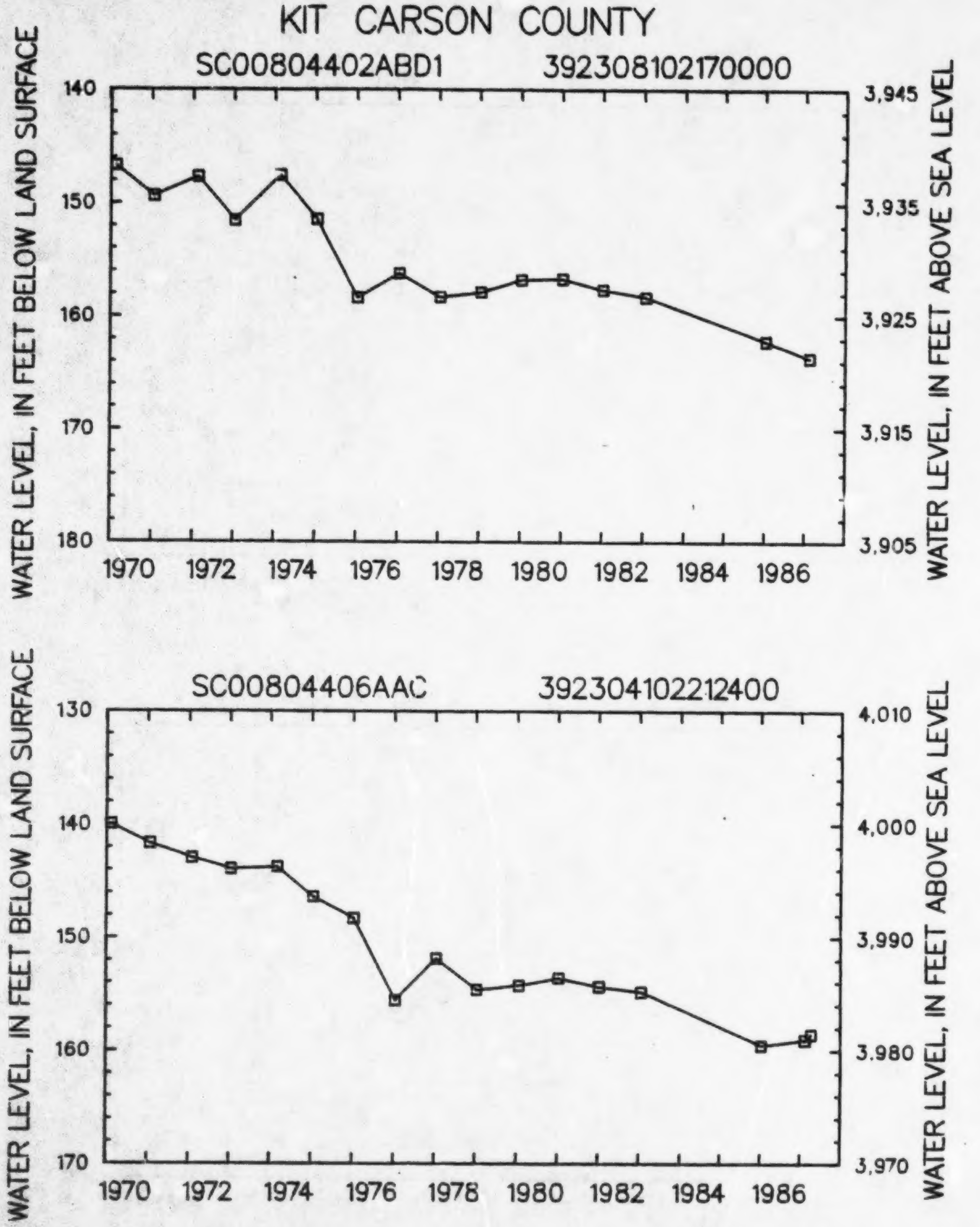

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

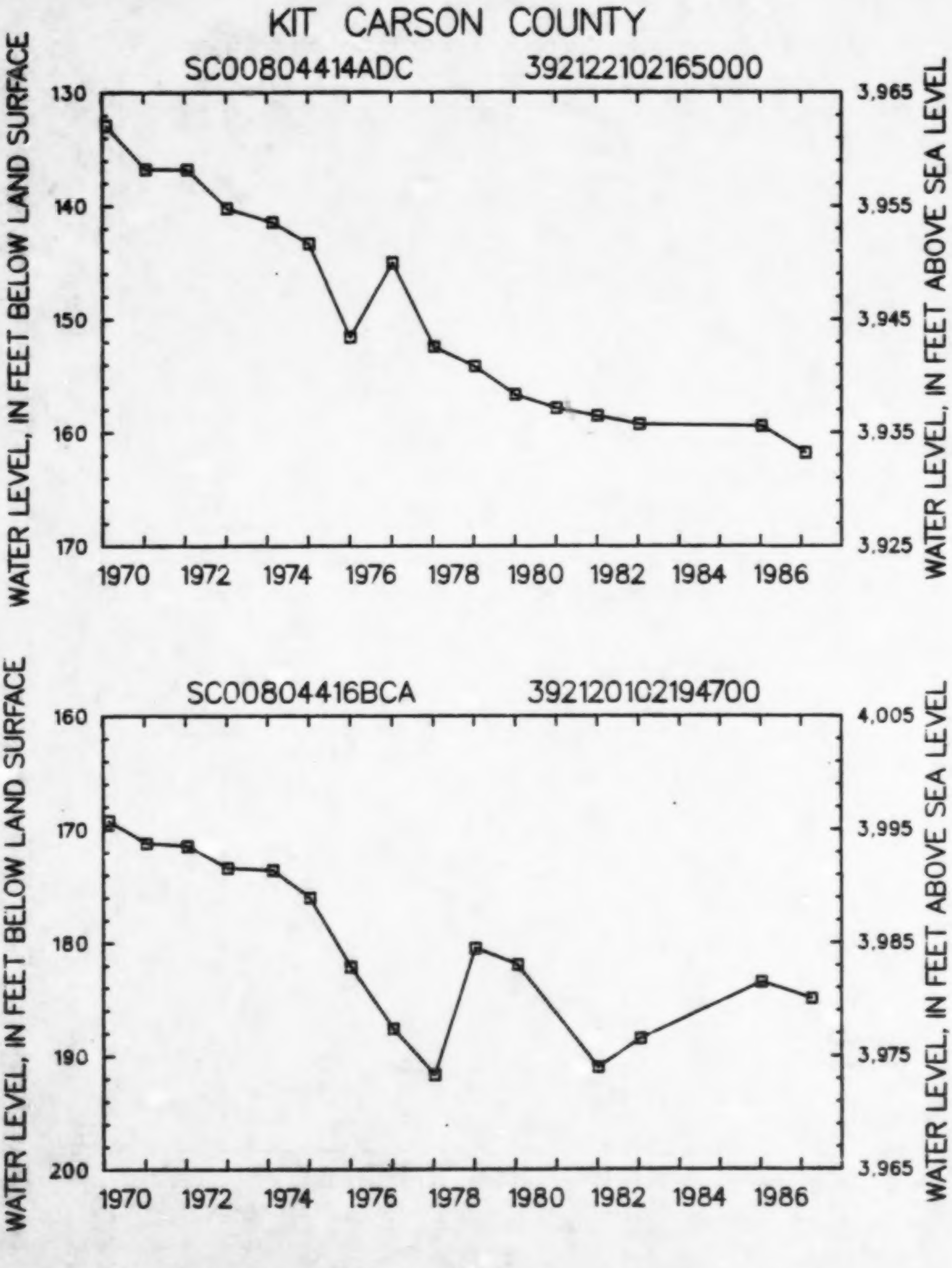

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

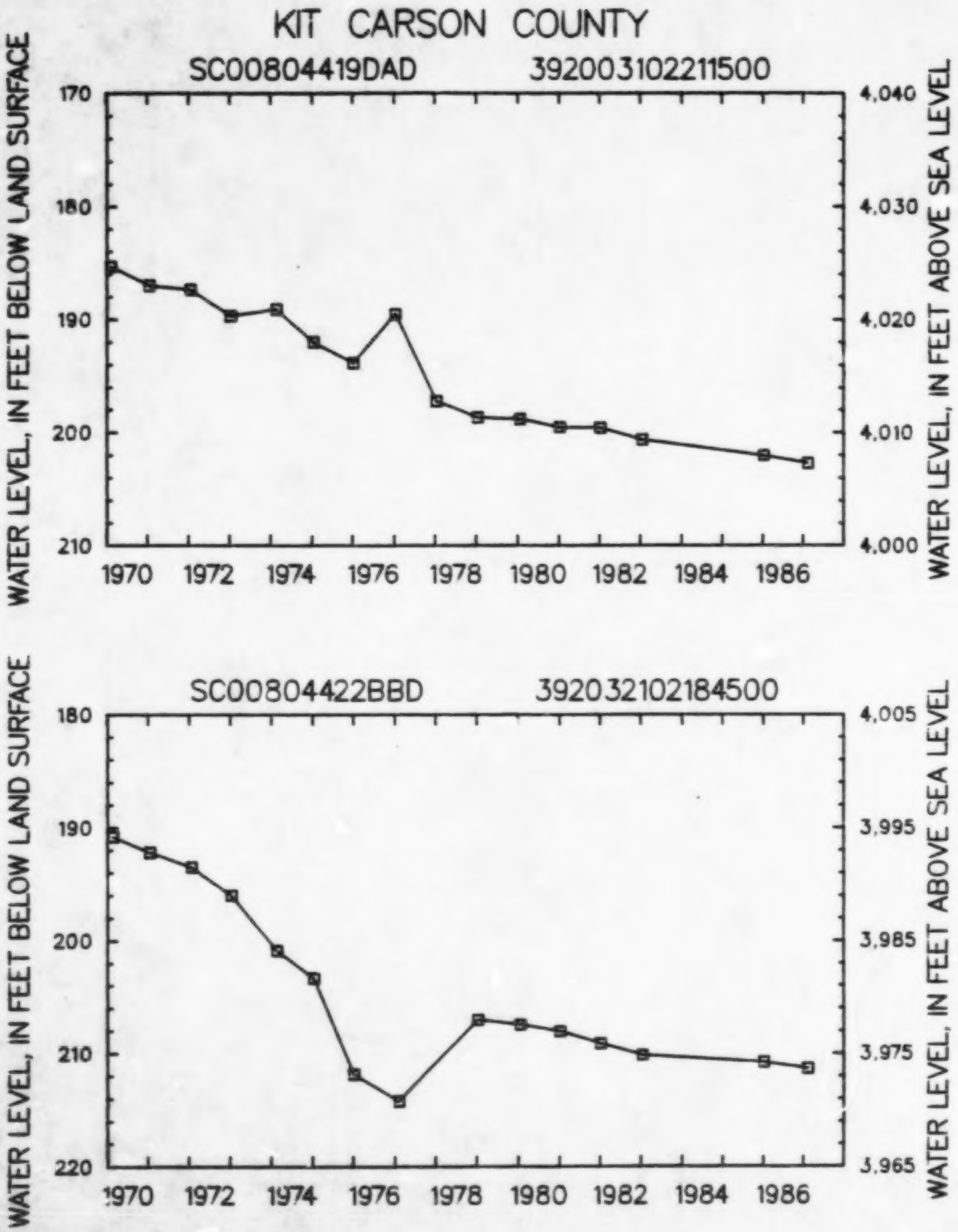

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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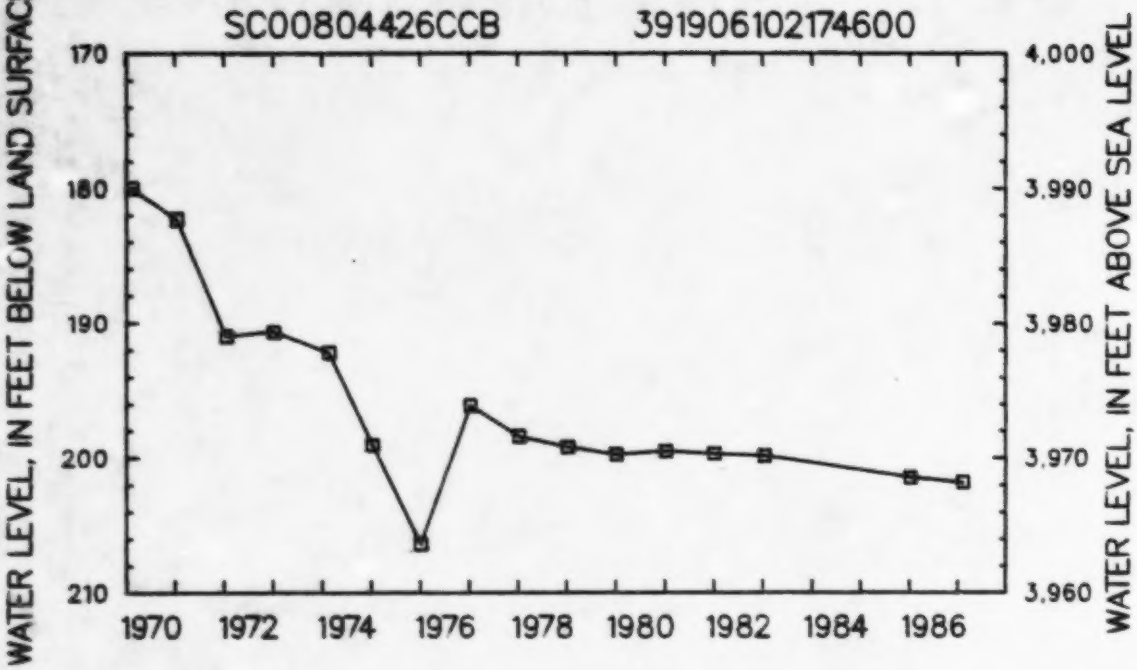

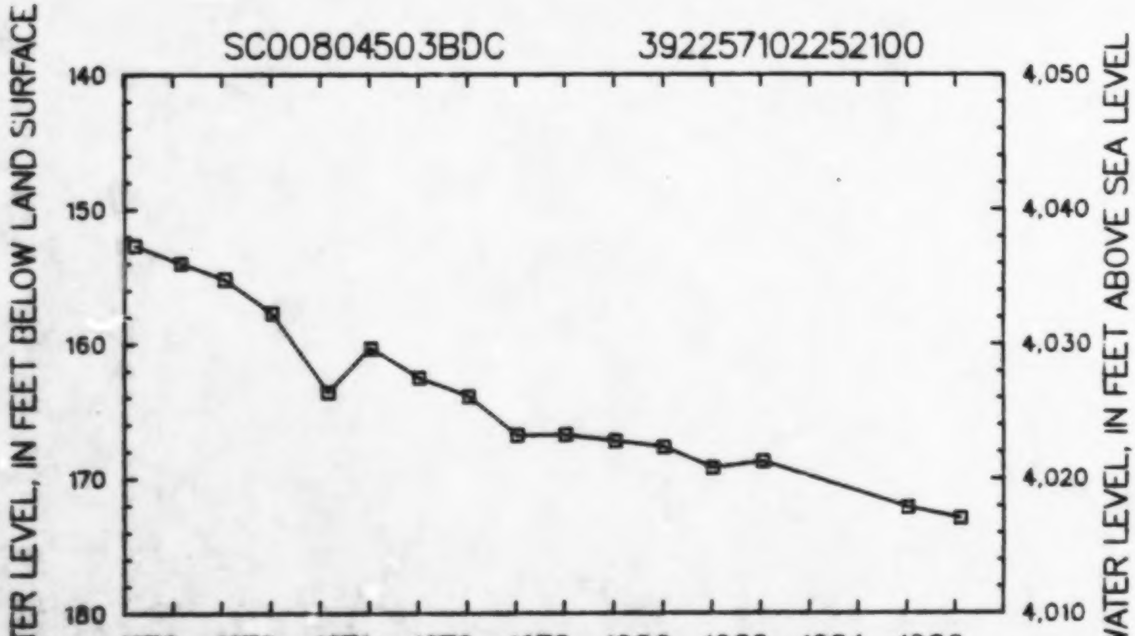

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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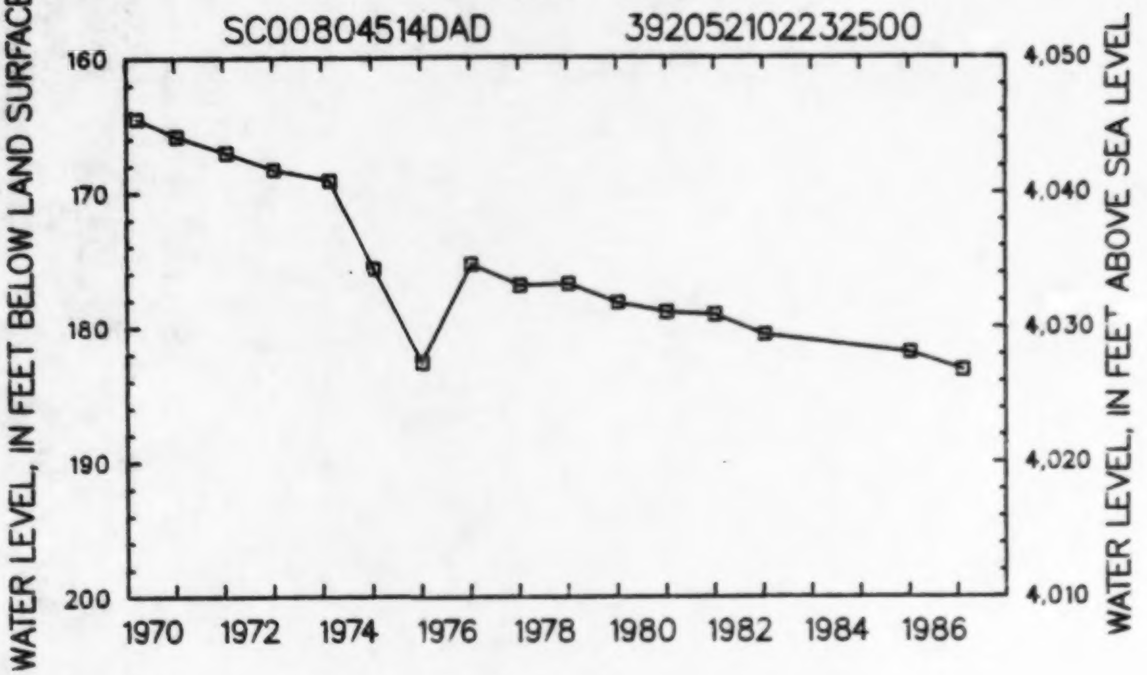


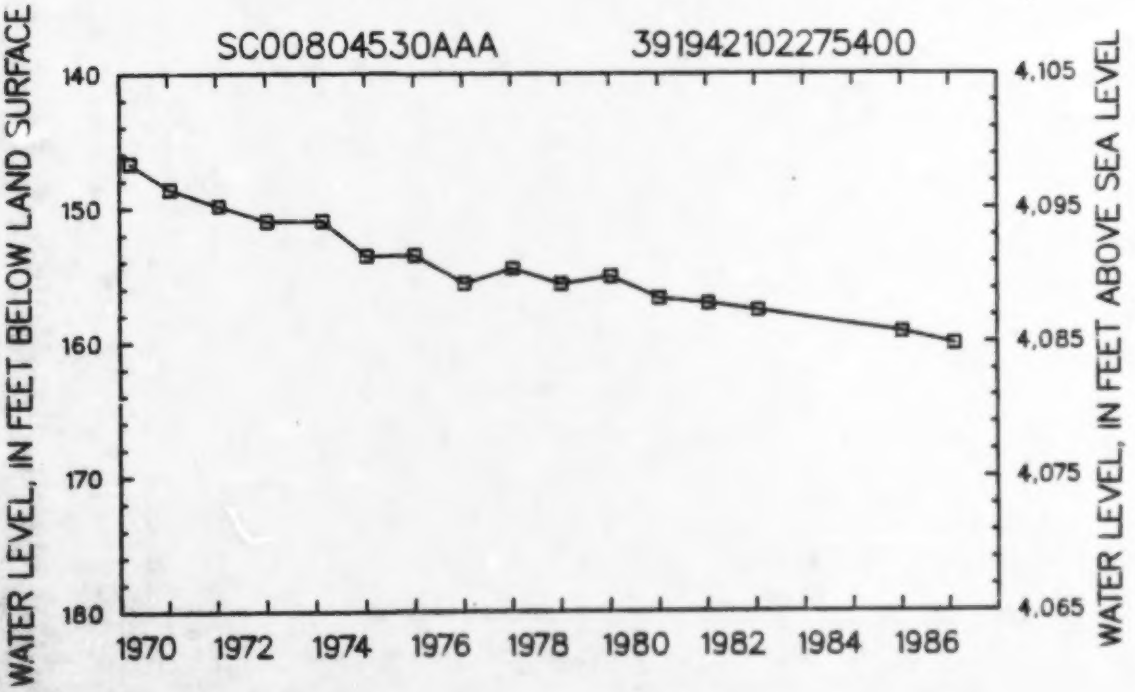
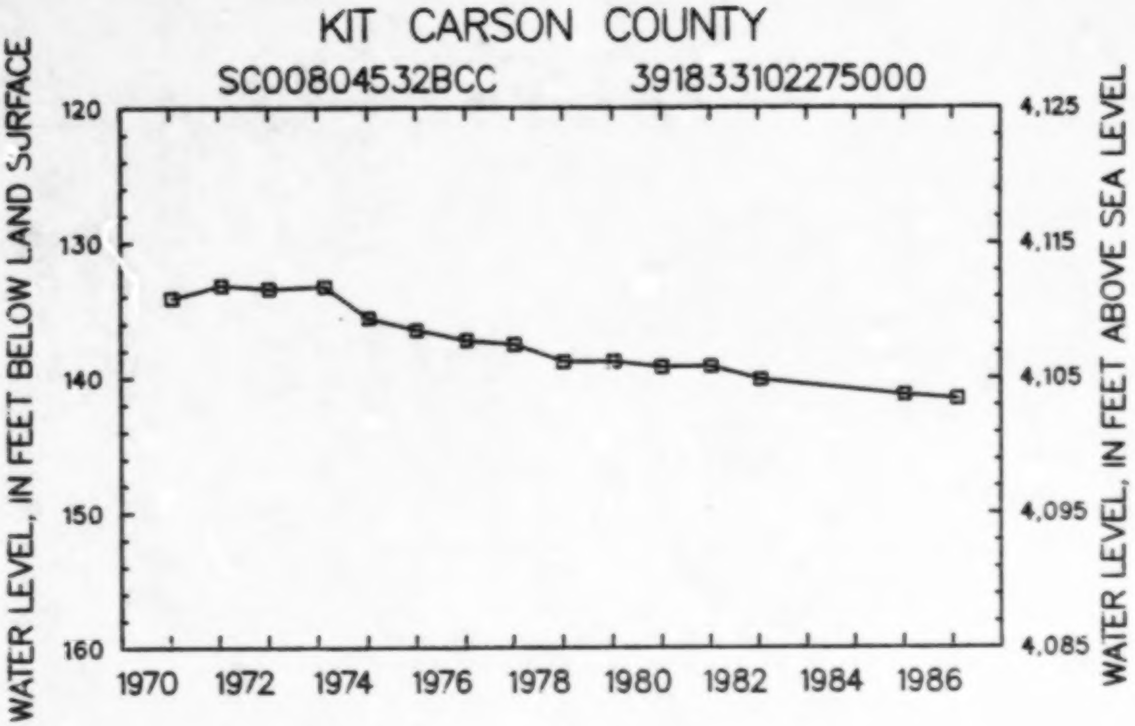


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



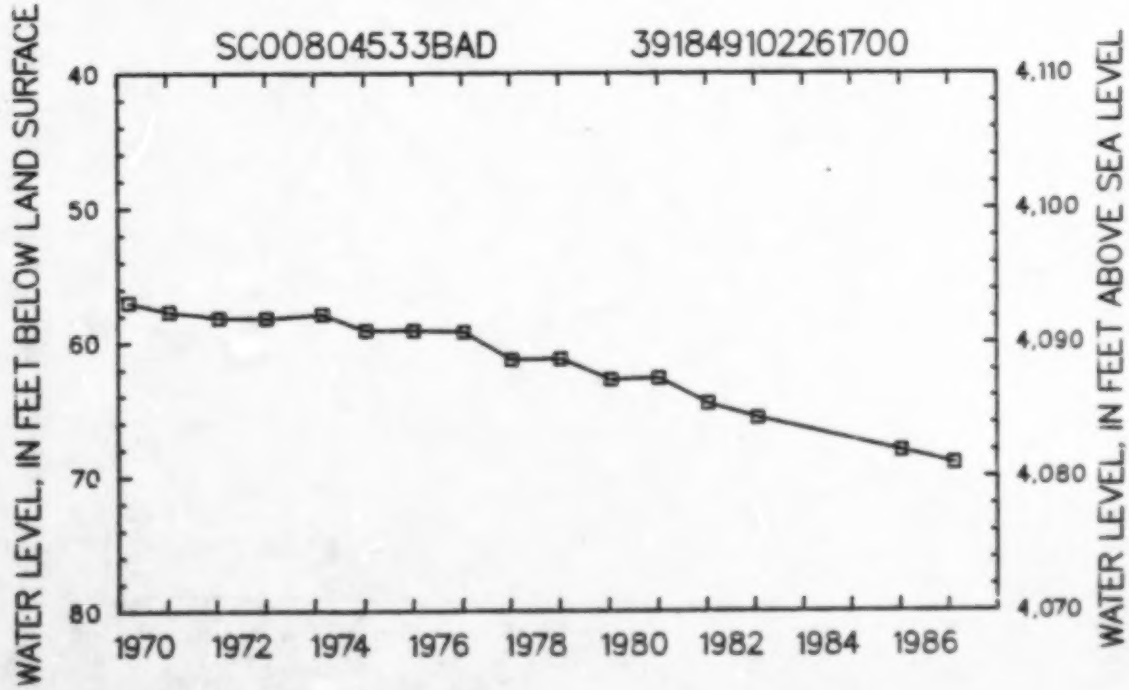


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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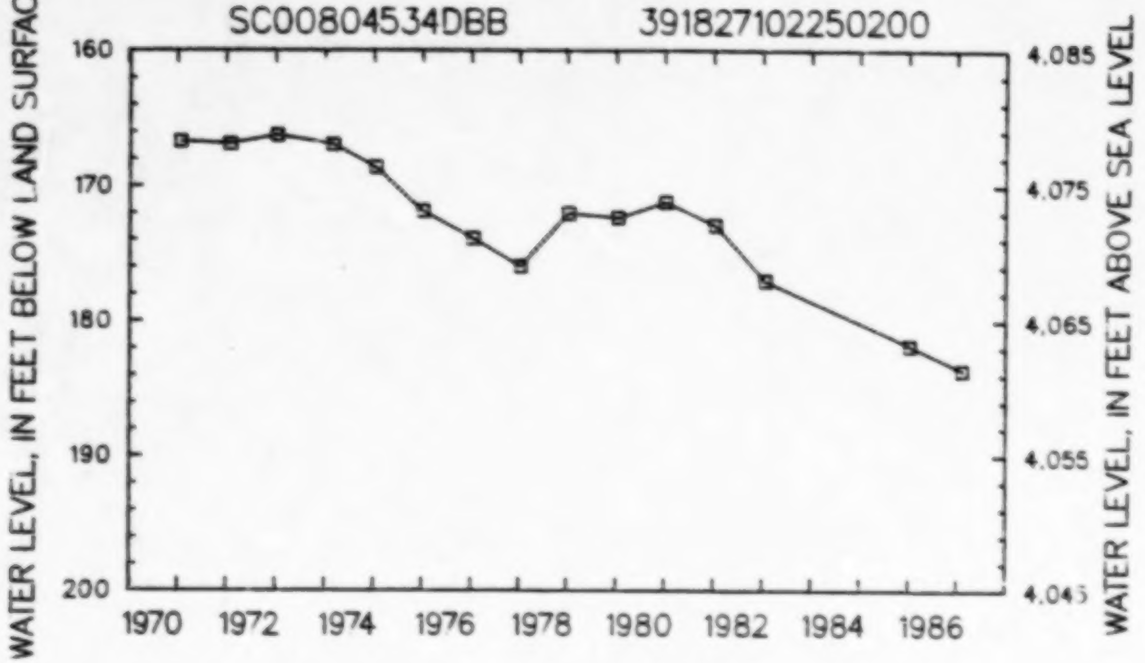

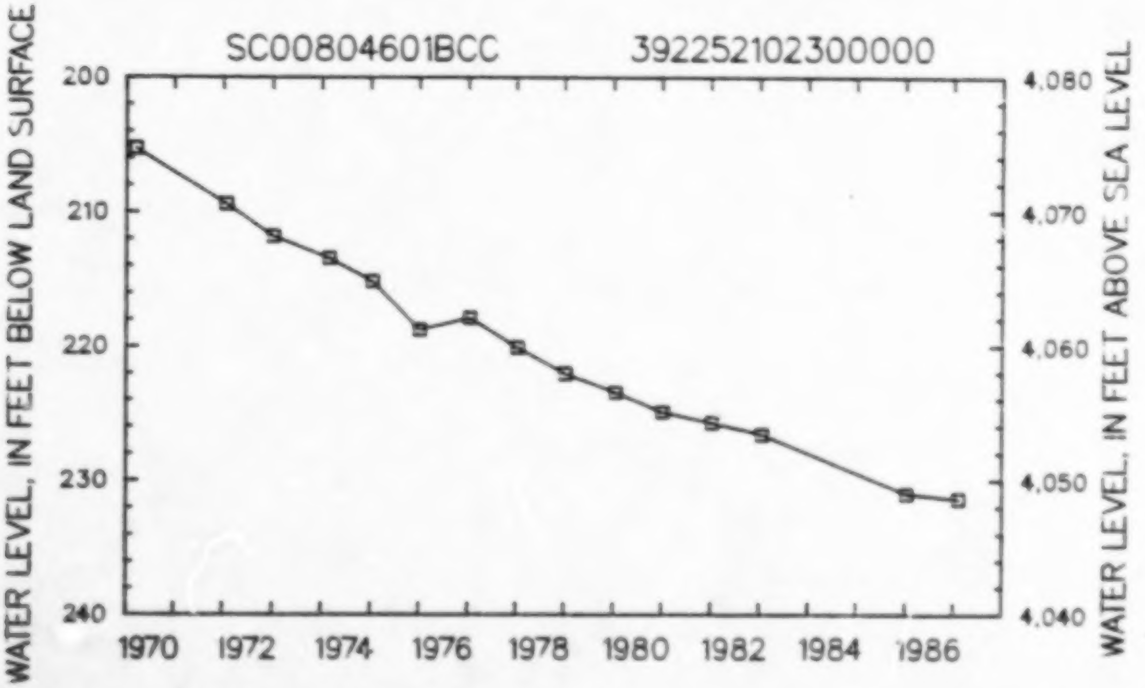

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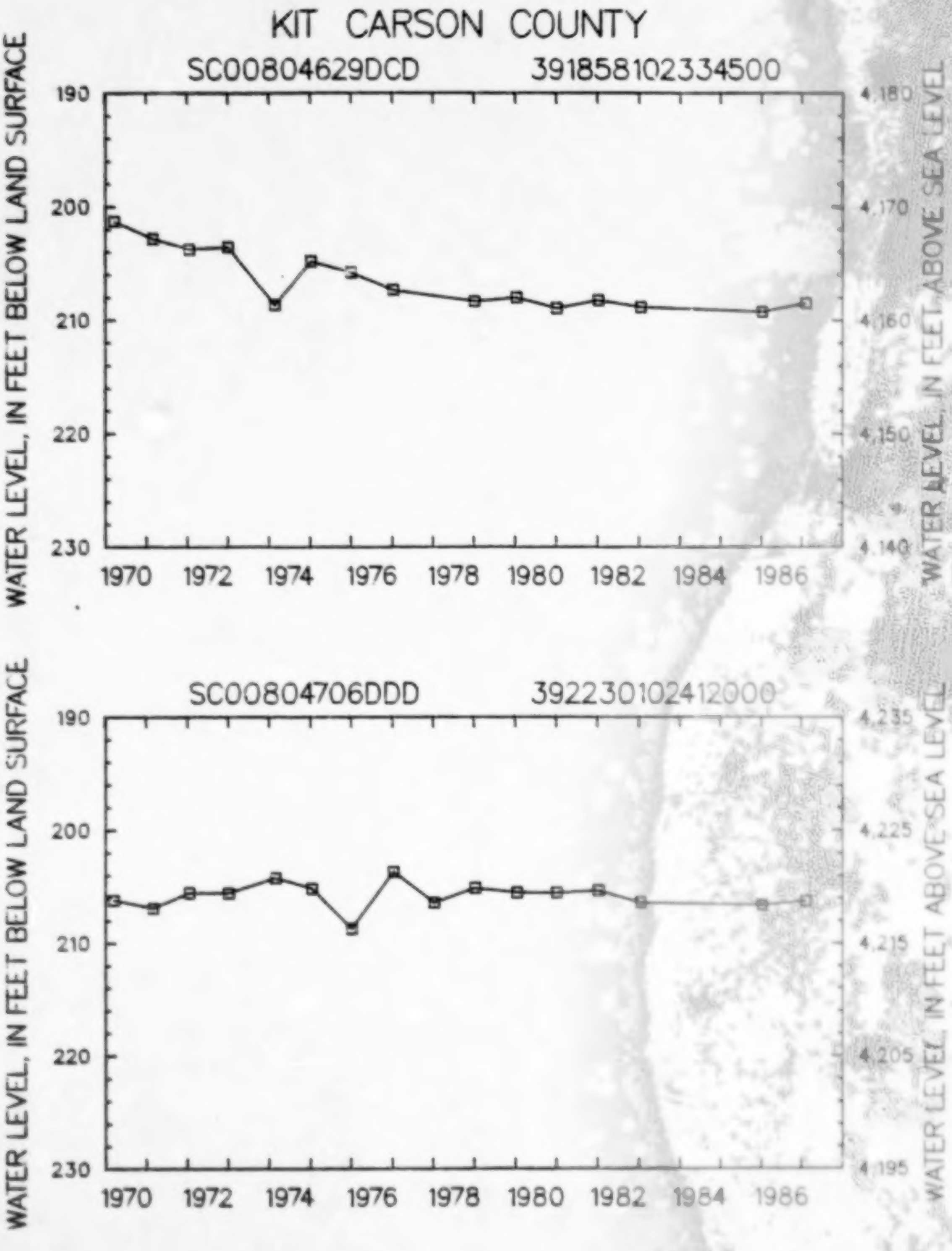

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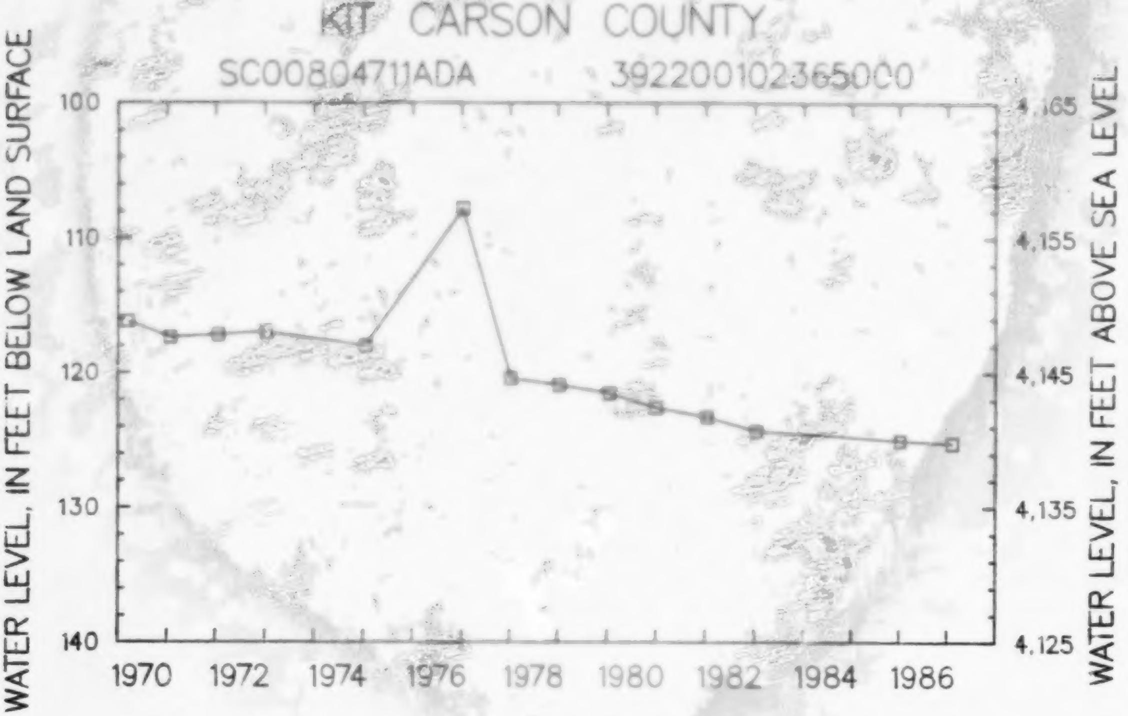


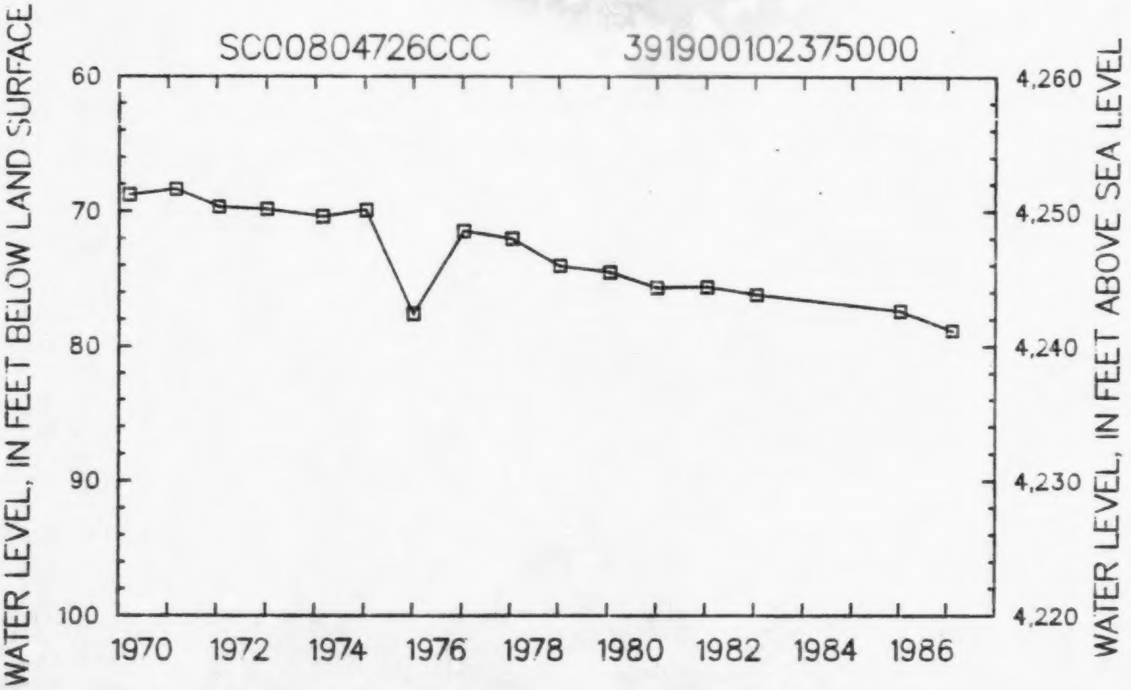


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

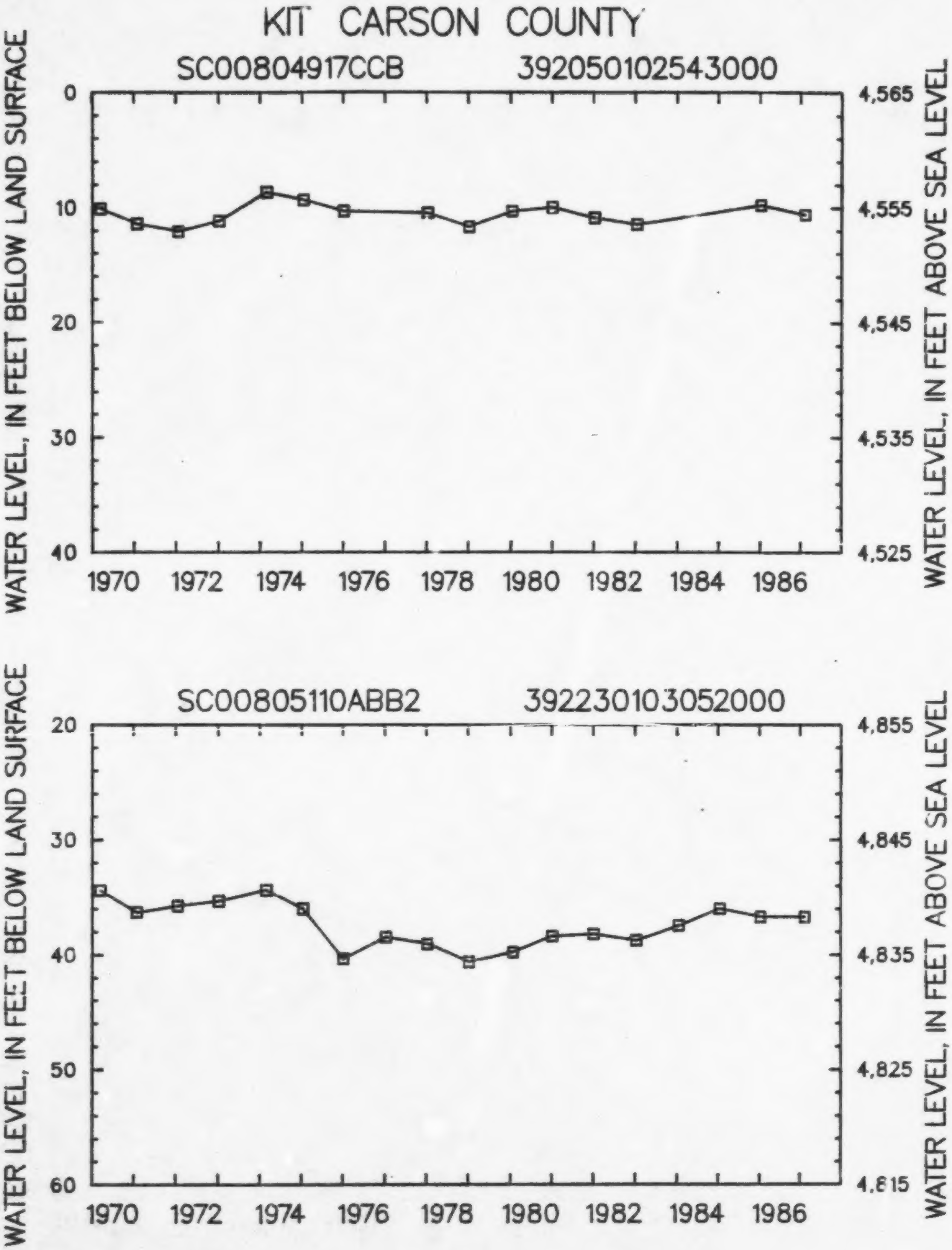
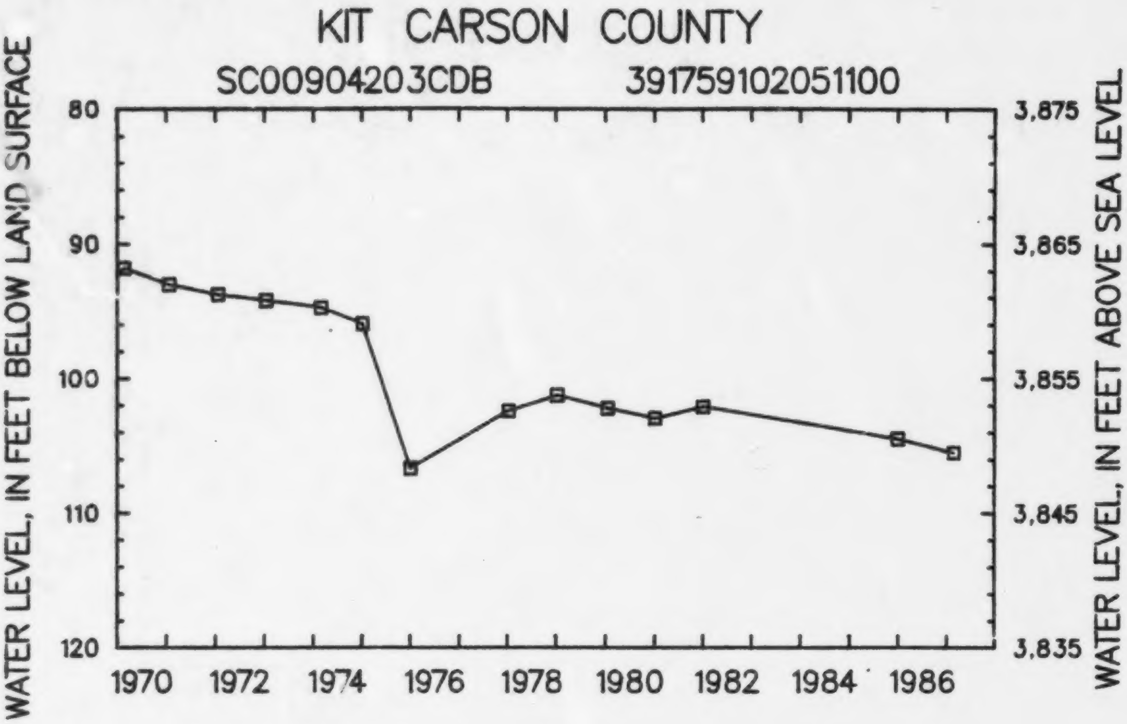


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



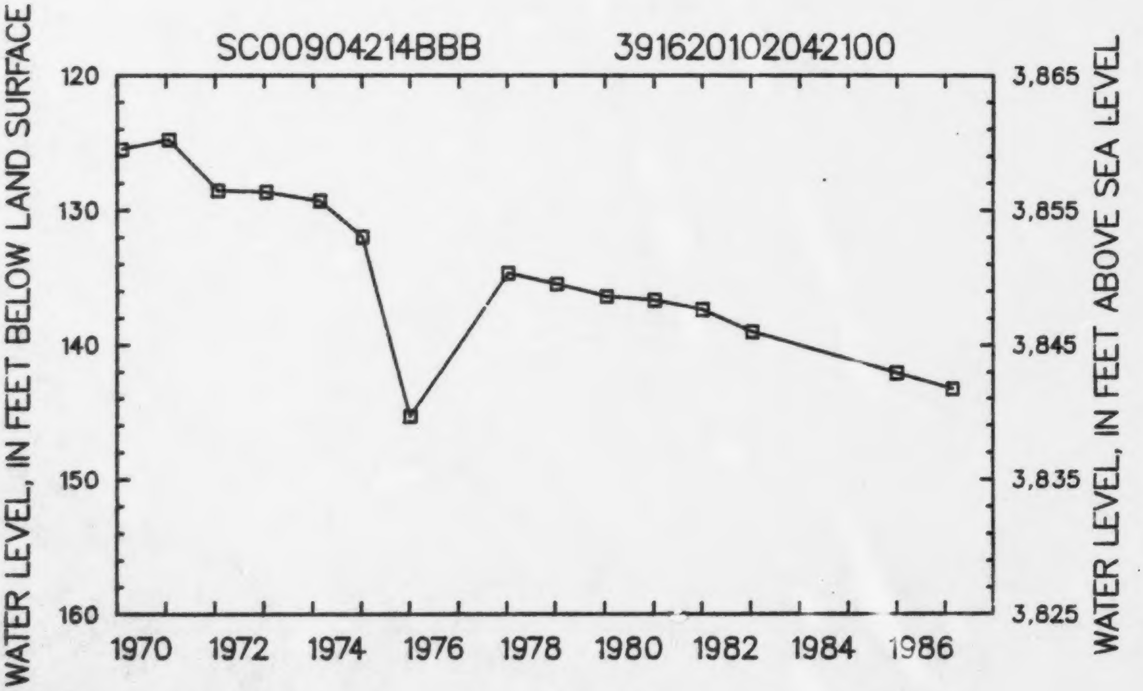


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

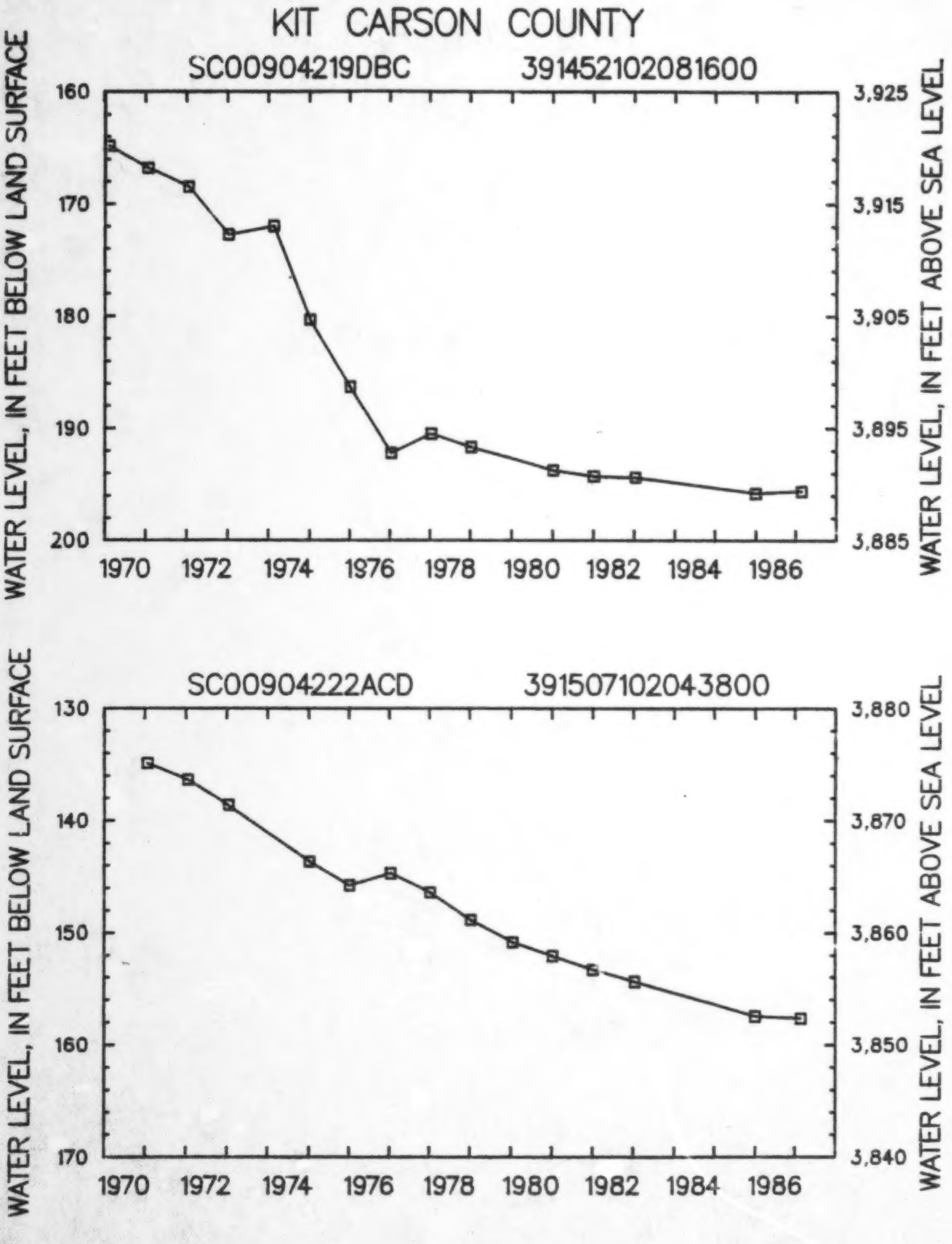


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

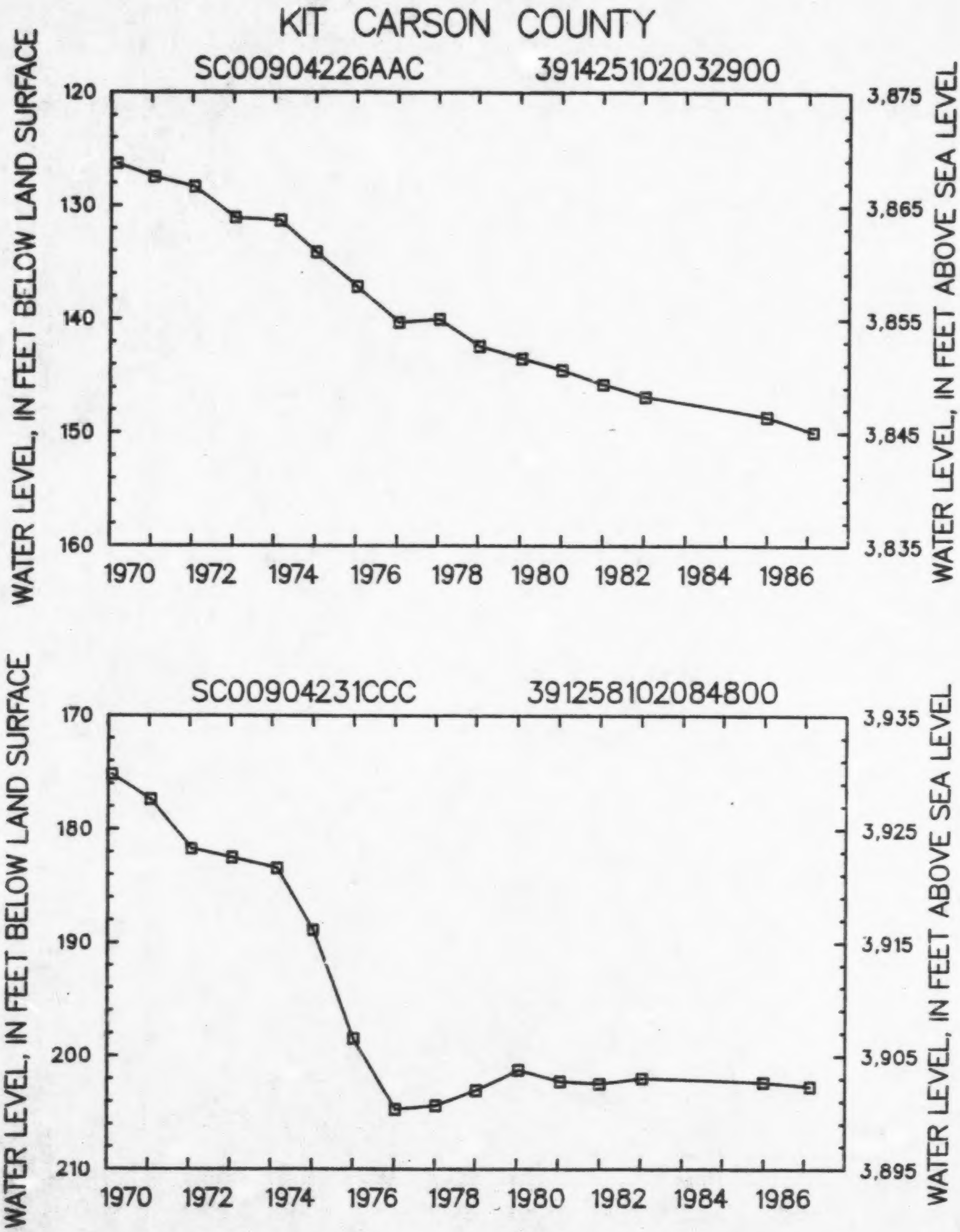


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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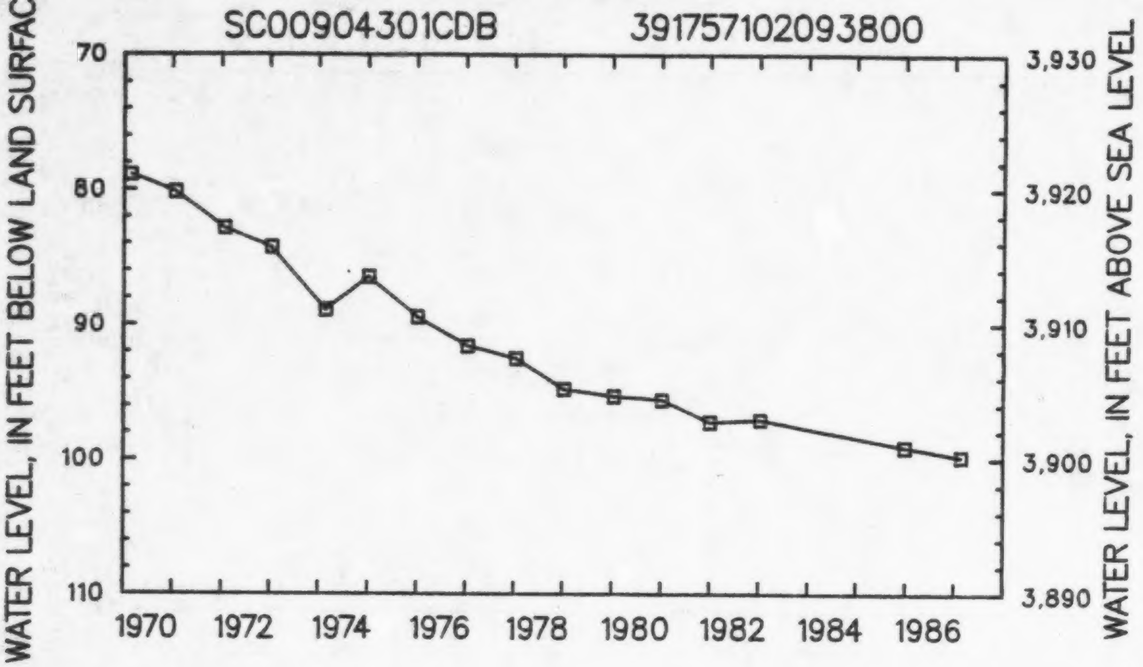


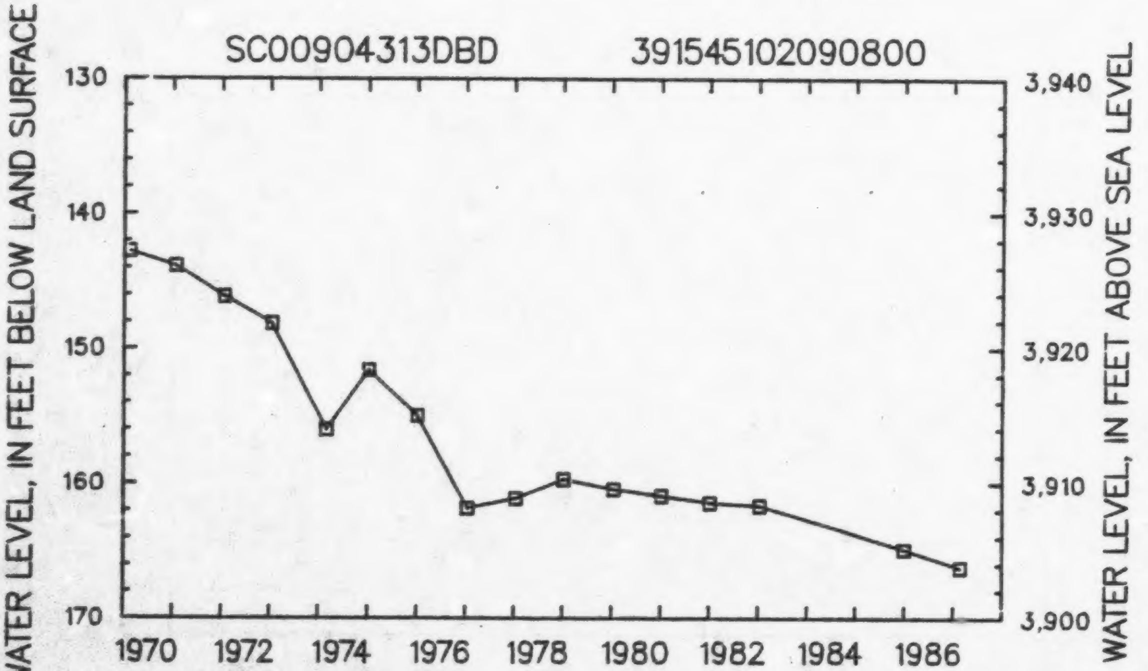
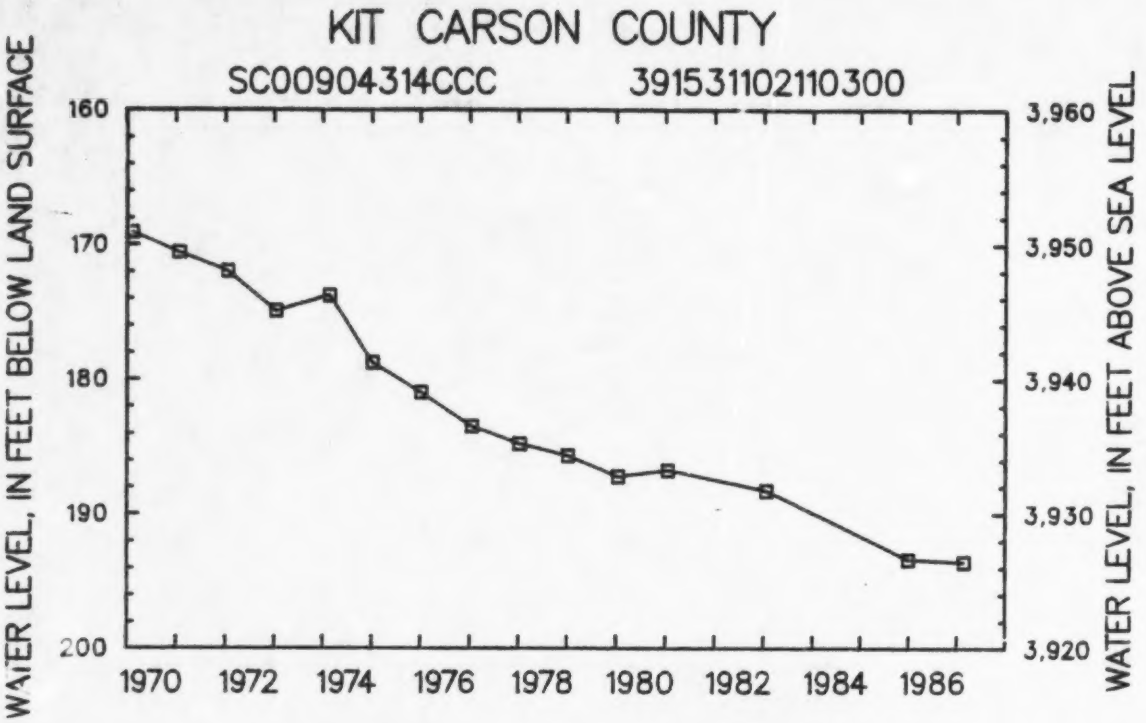


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



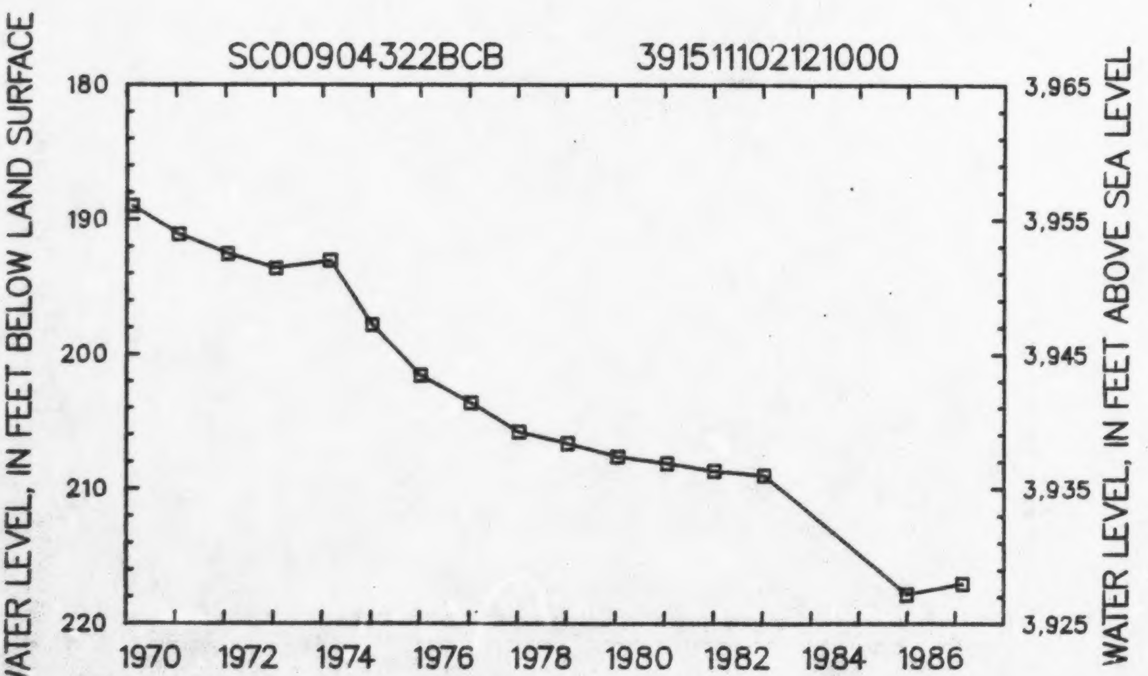
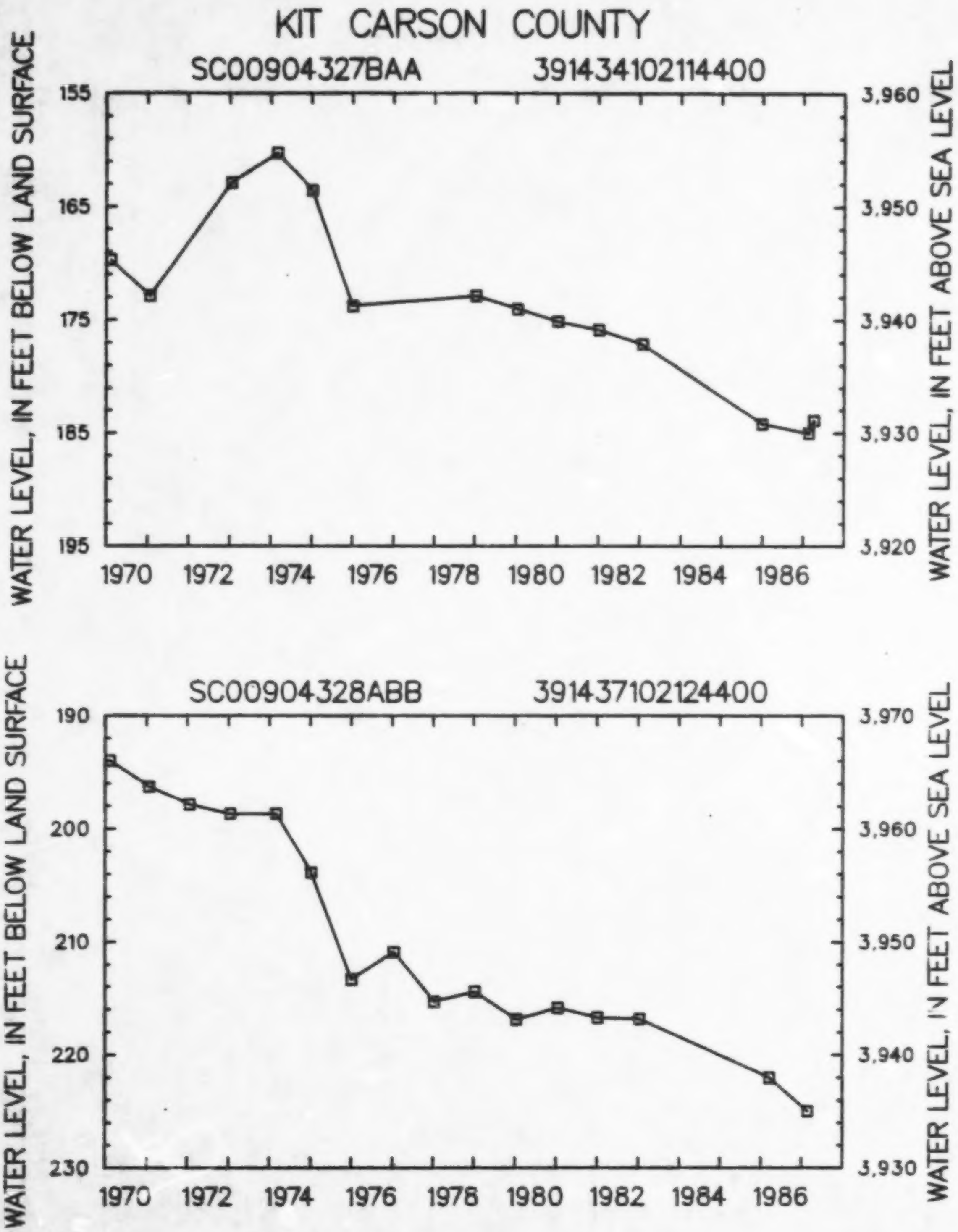


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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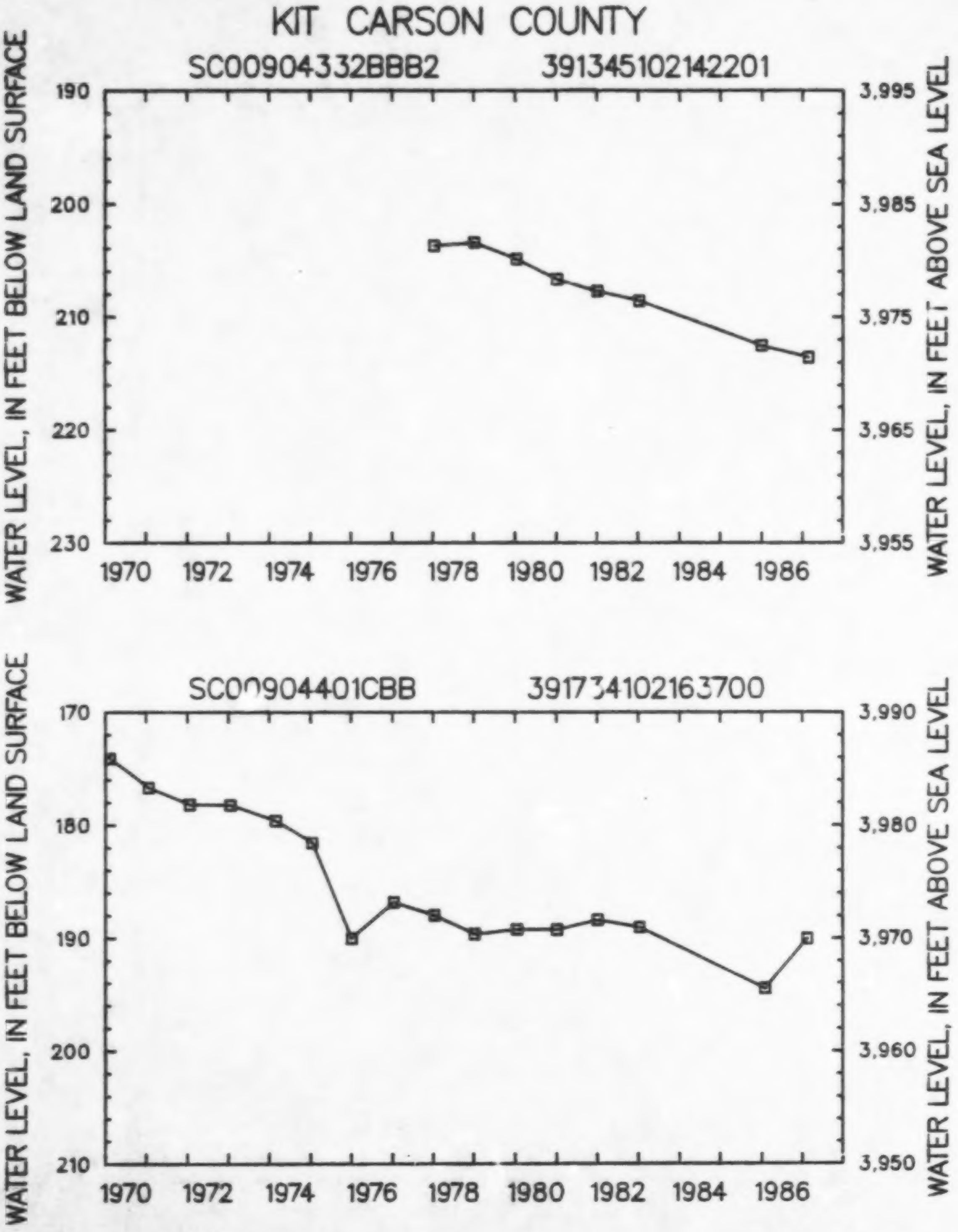

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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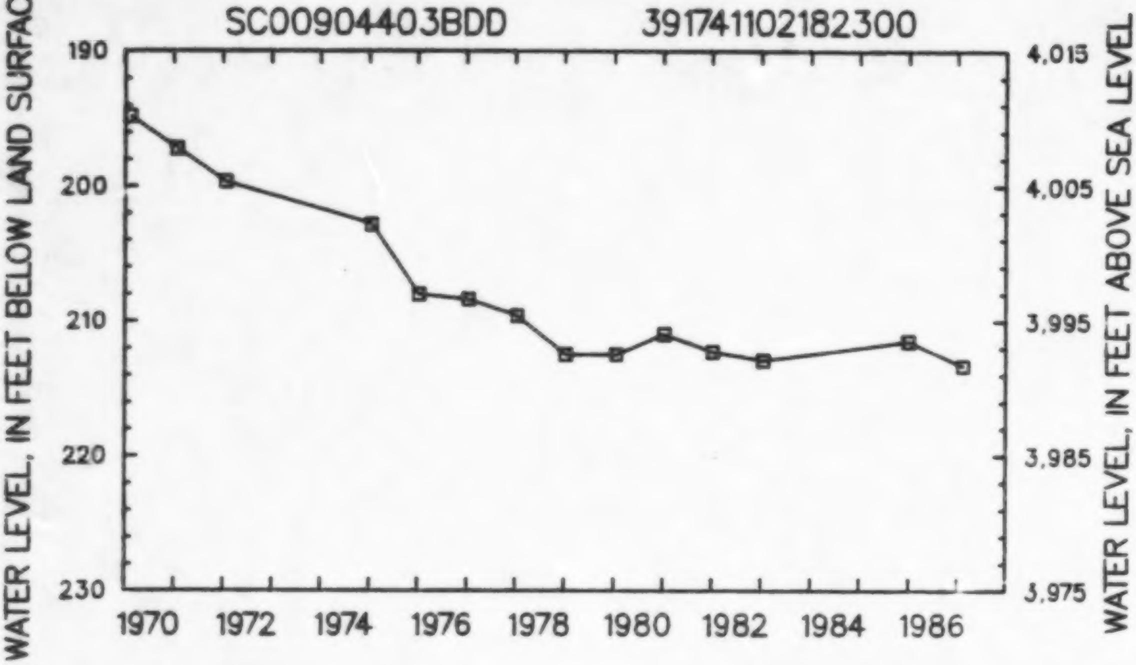


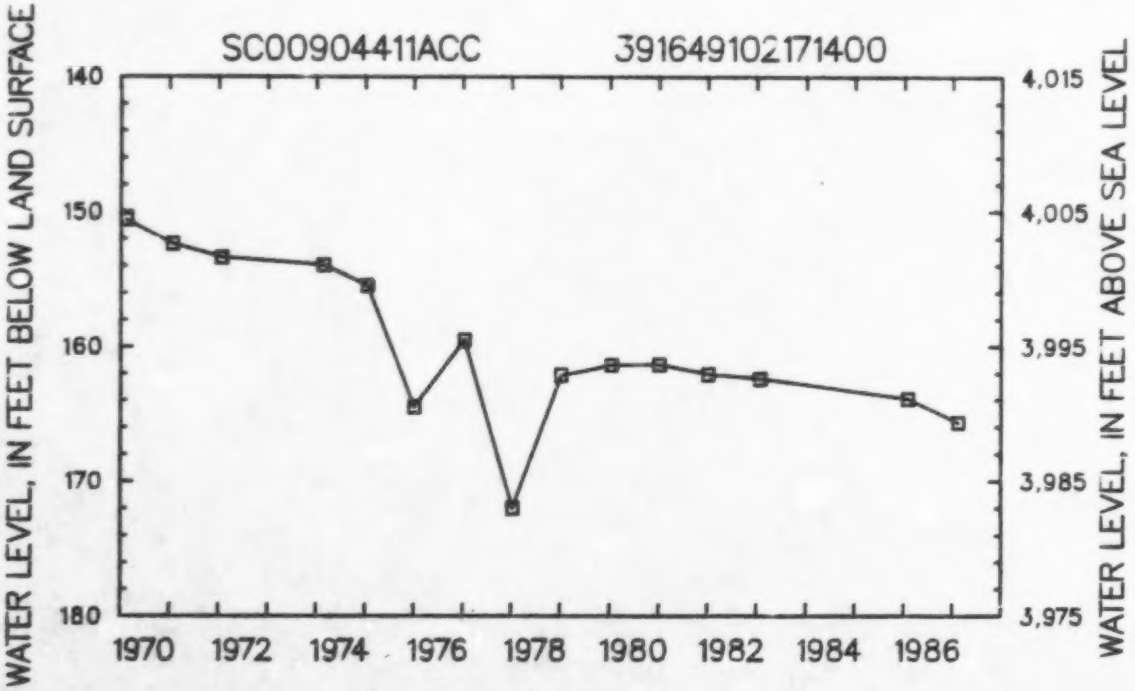
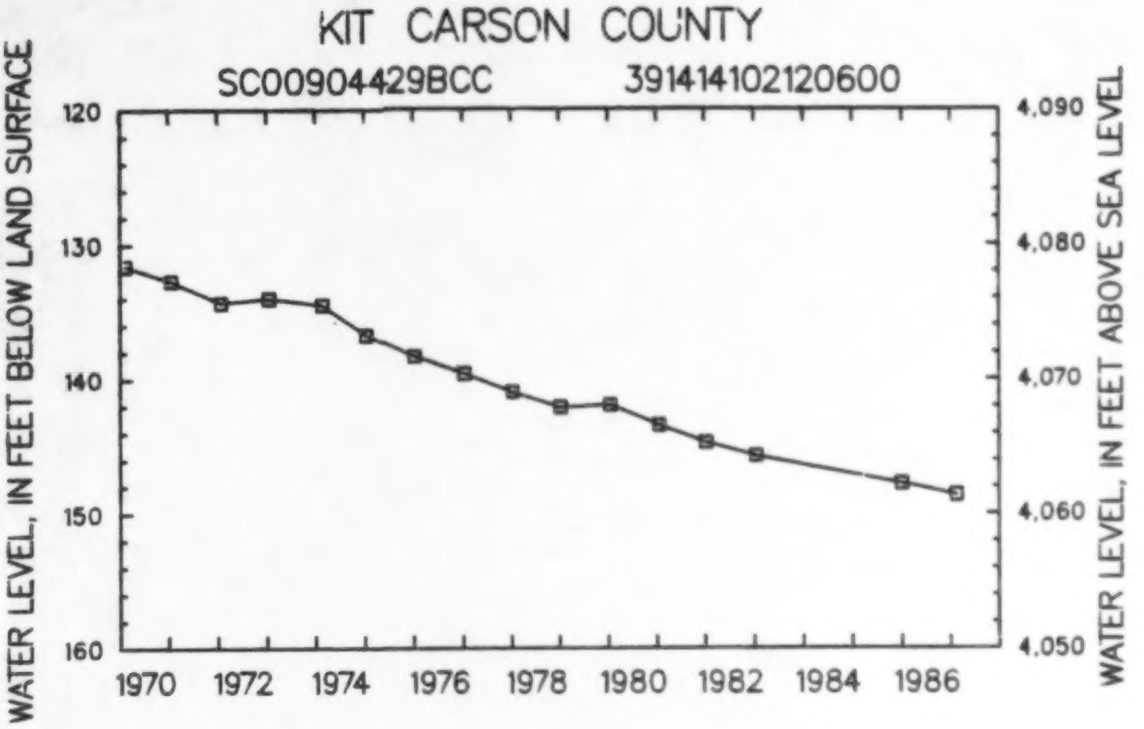
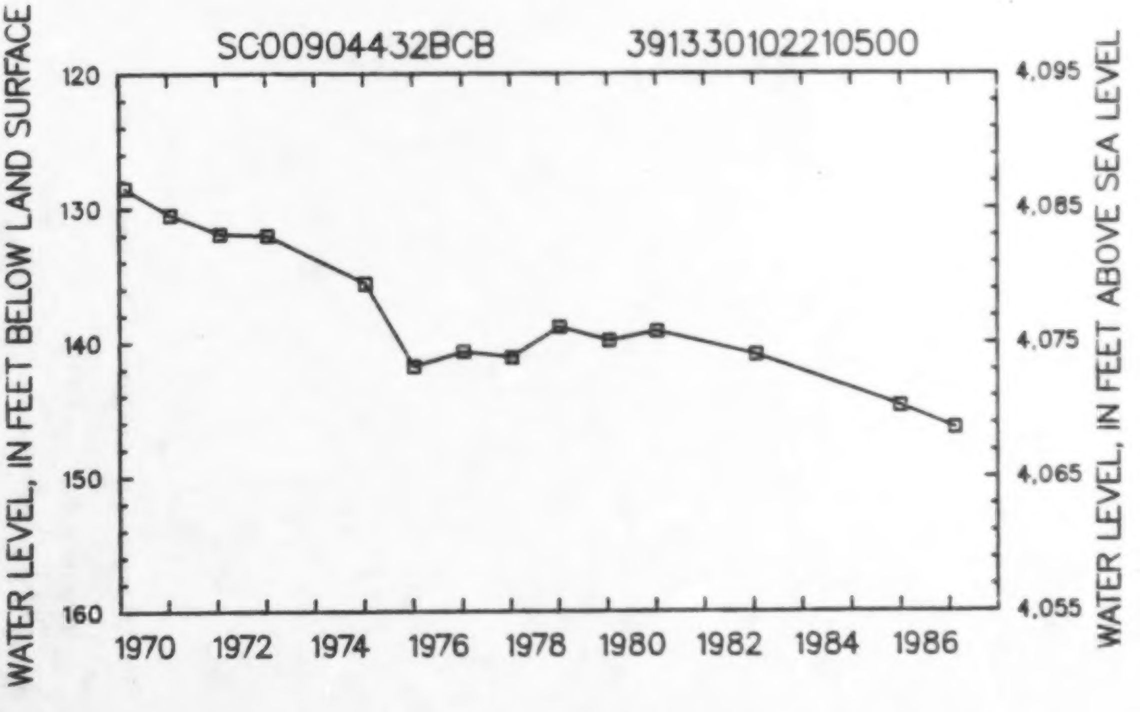


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.





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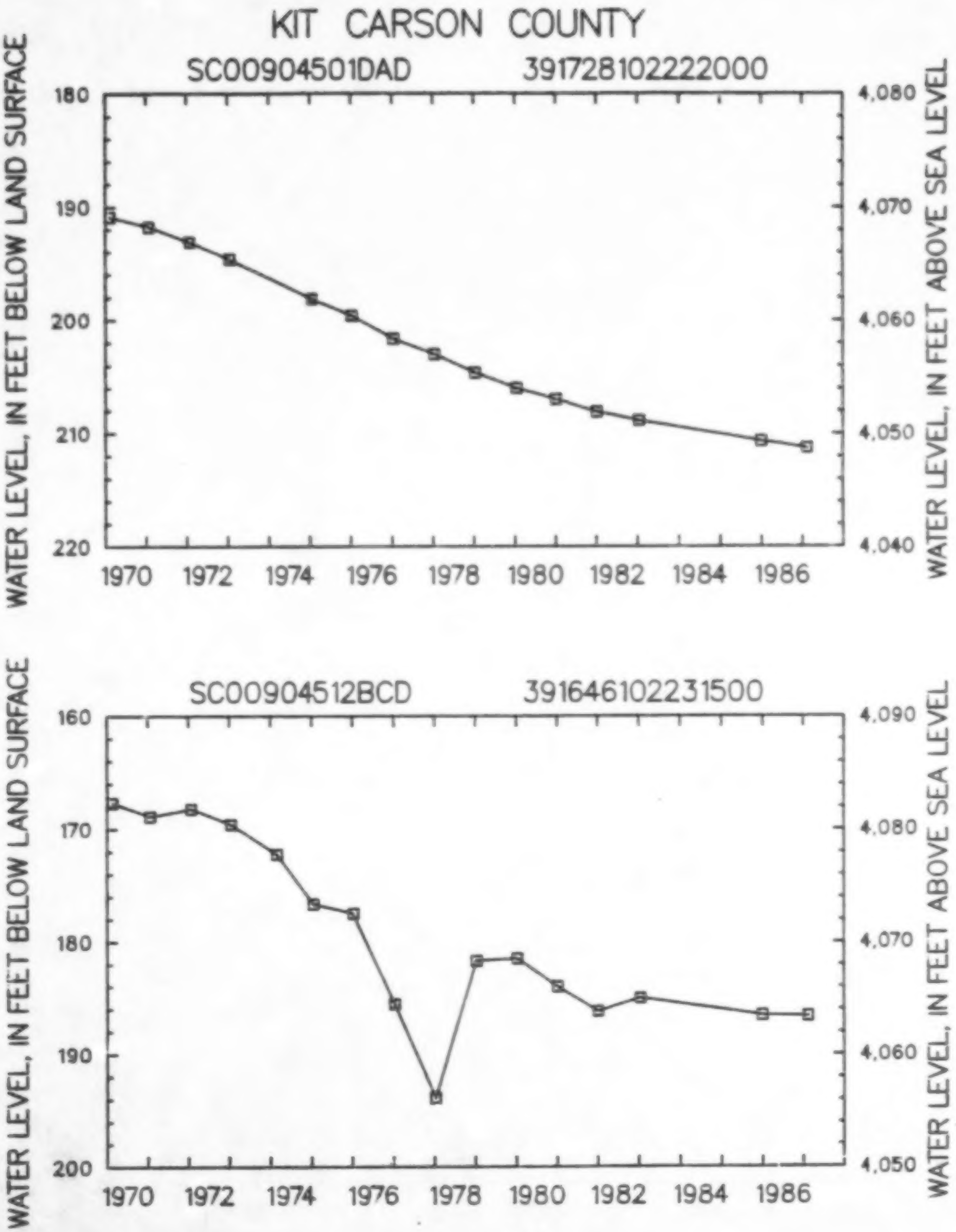

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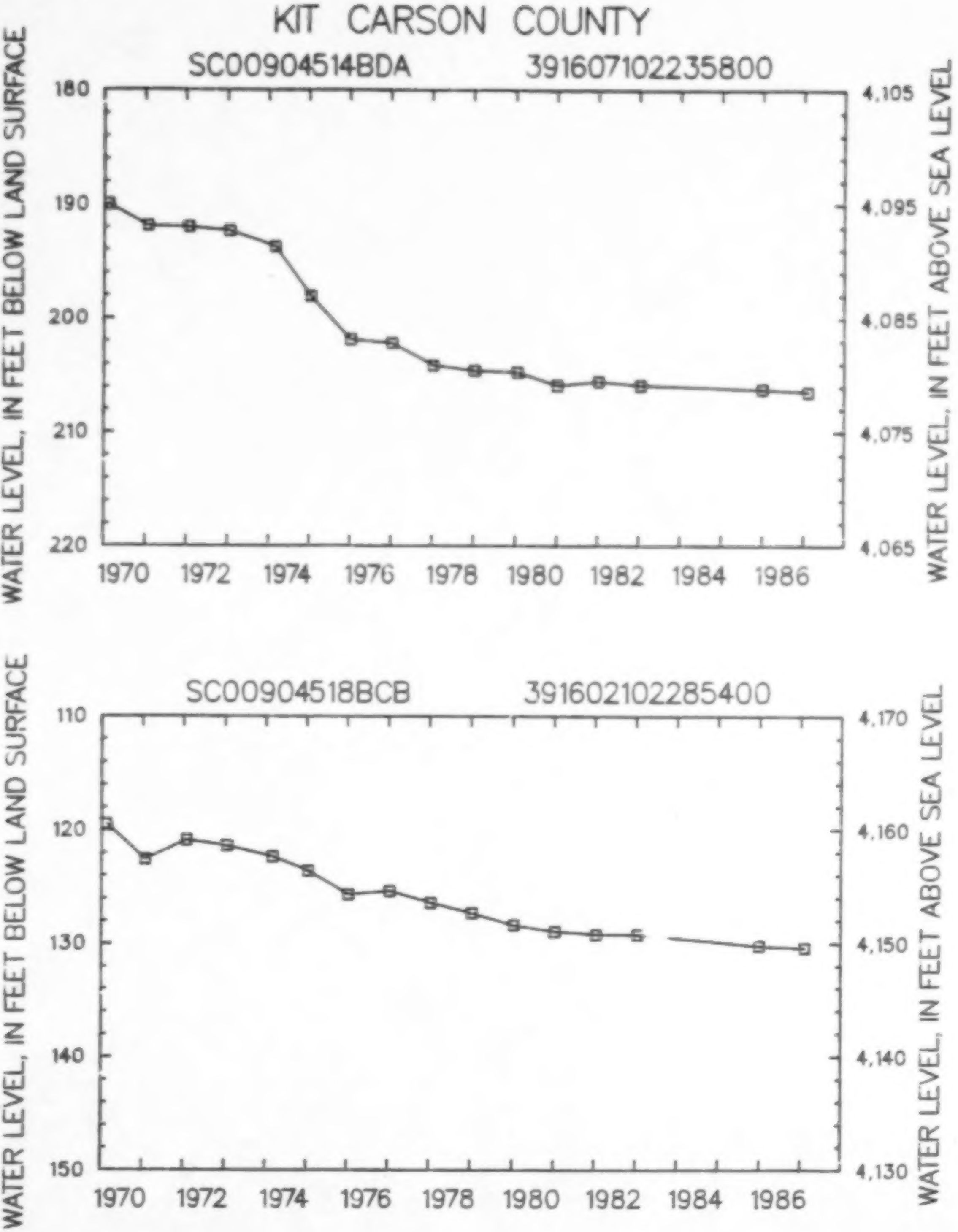

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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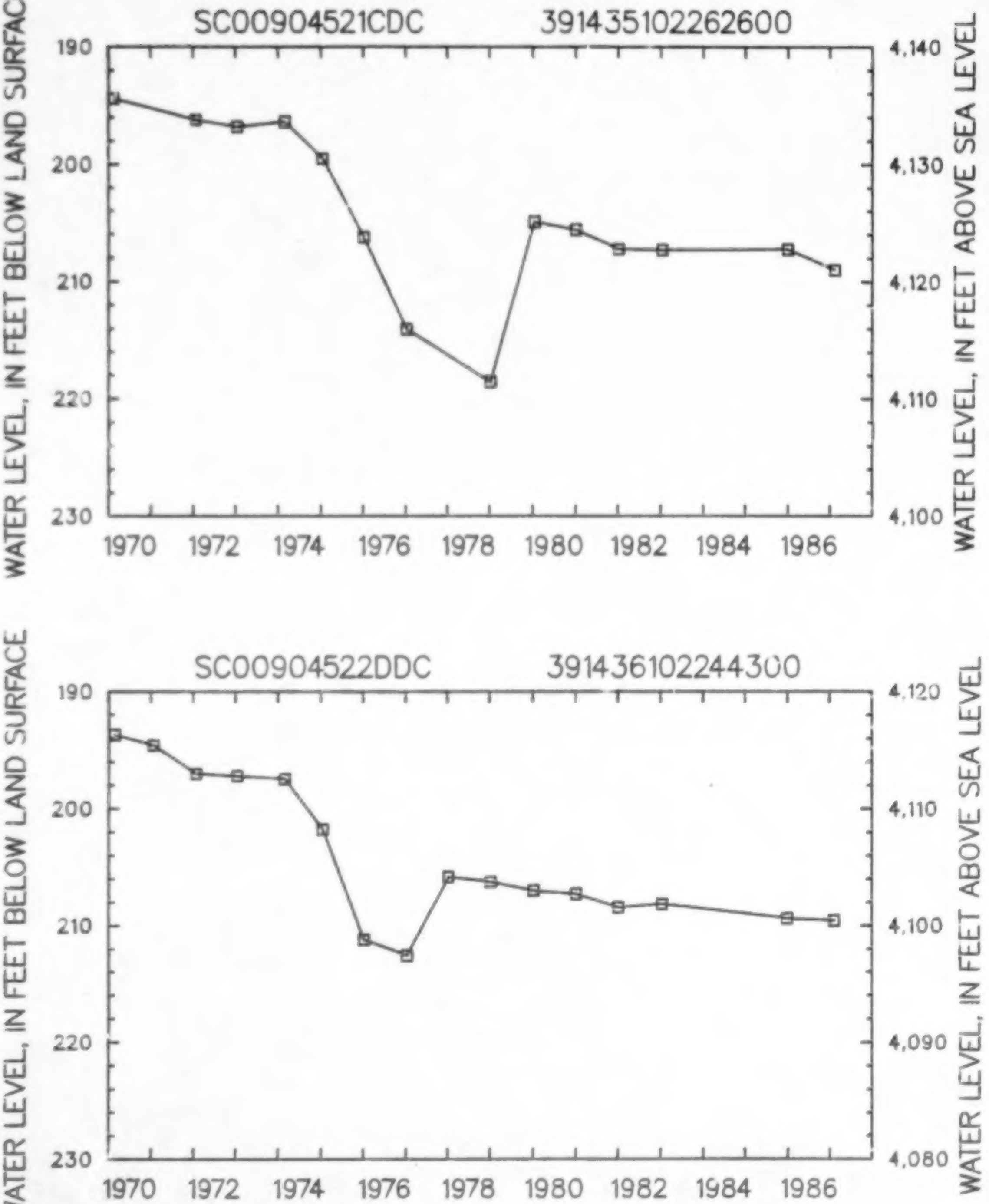


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

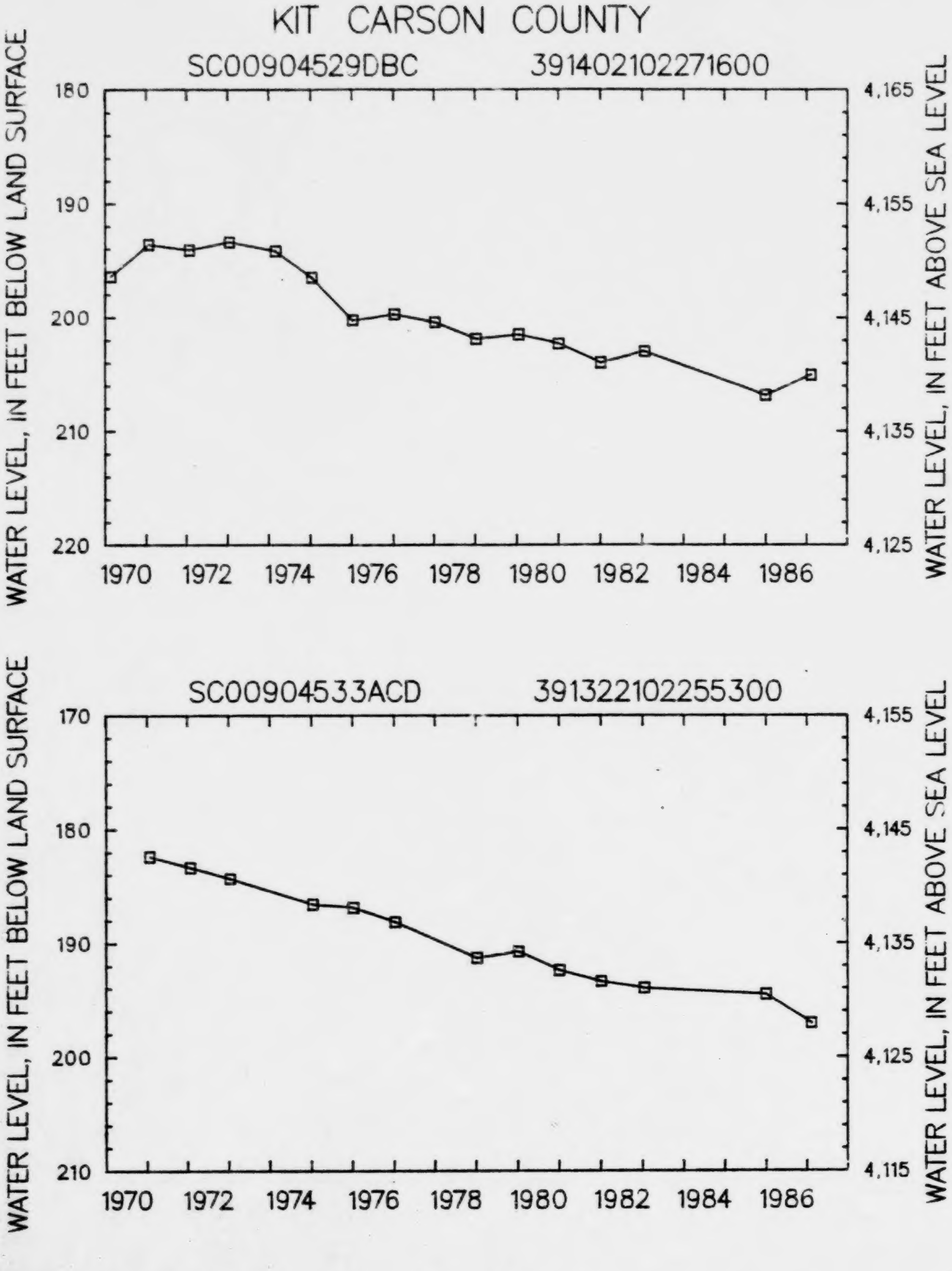
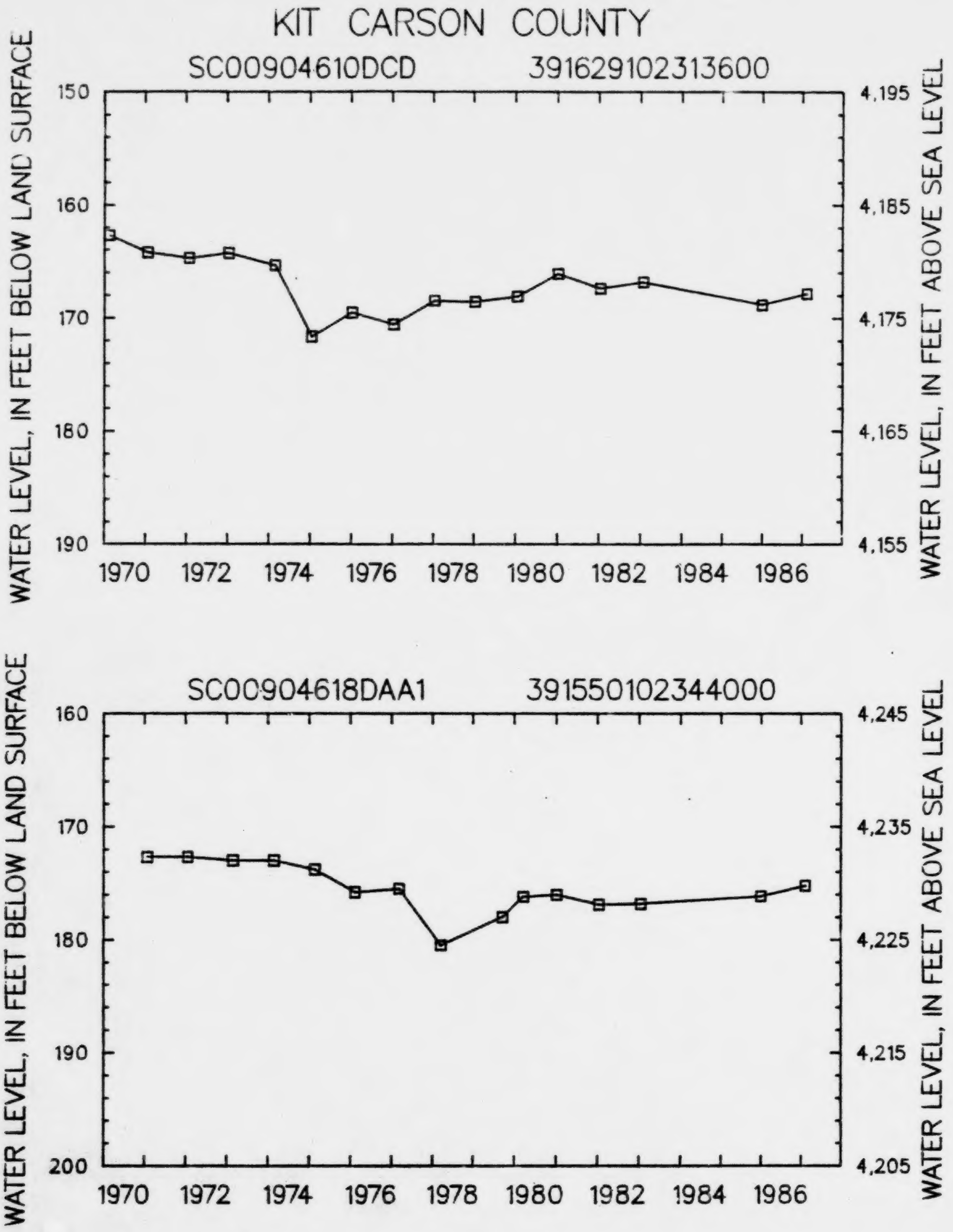


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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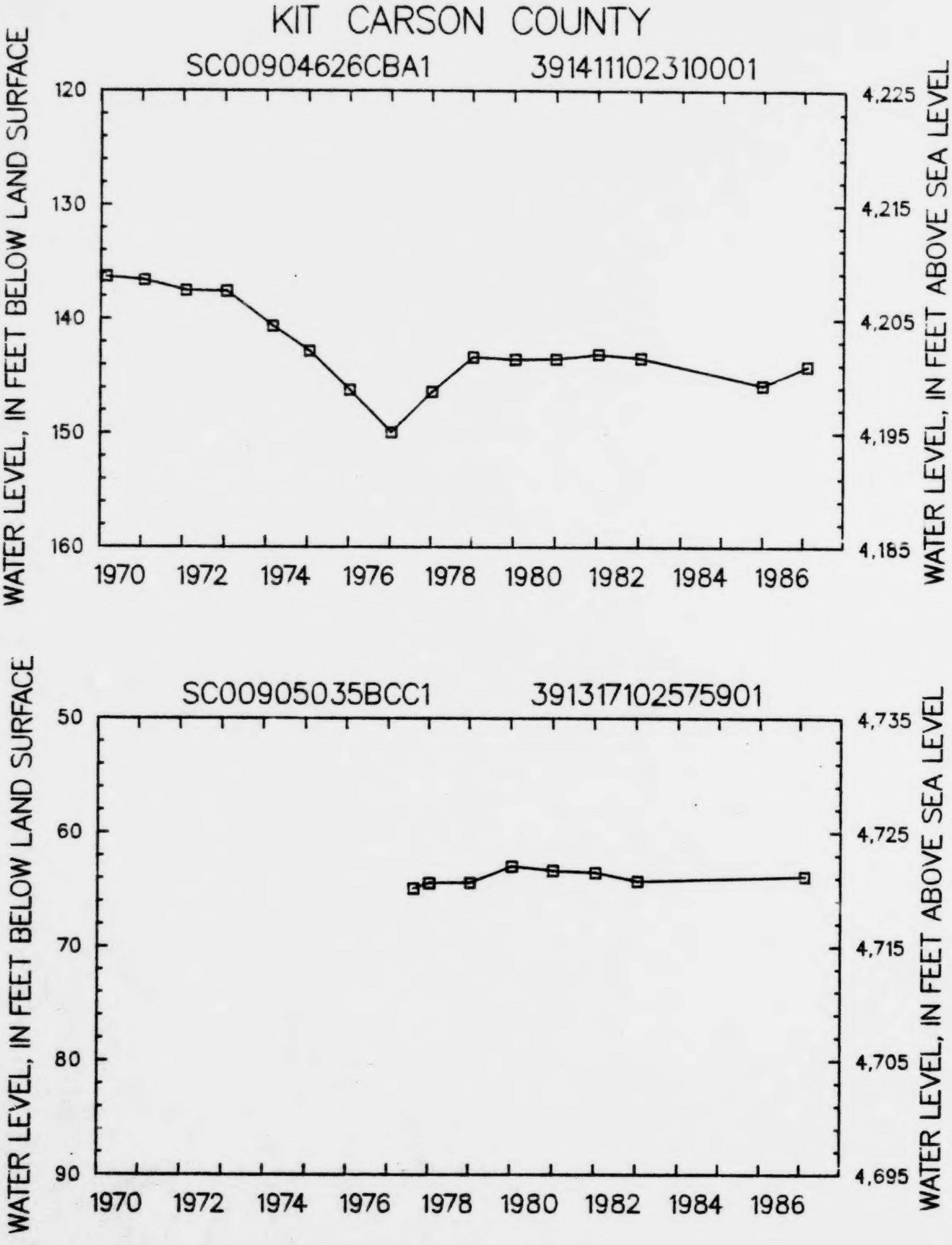

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

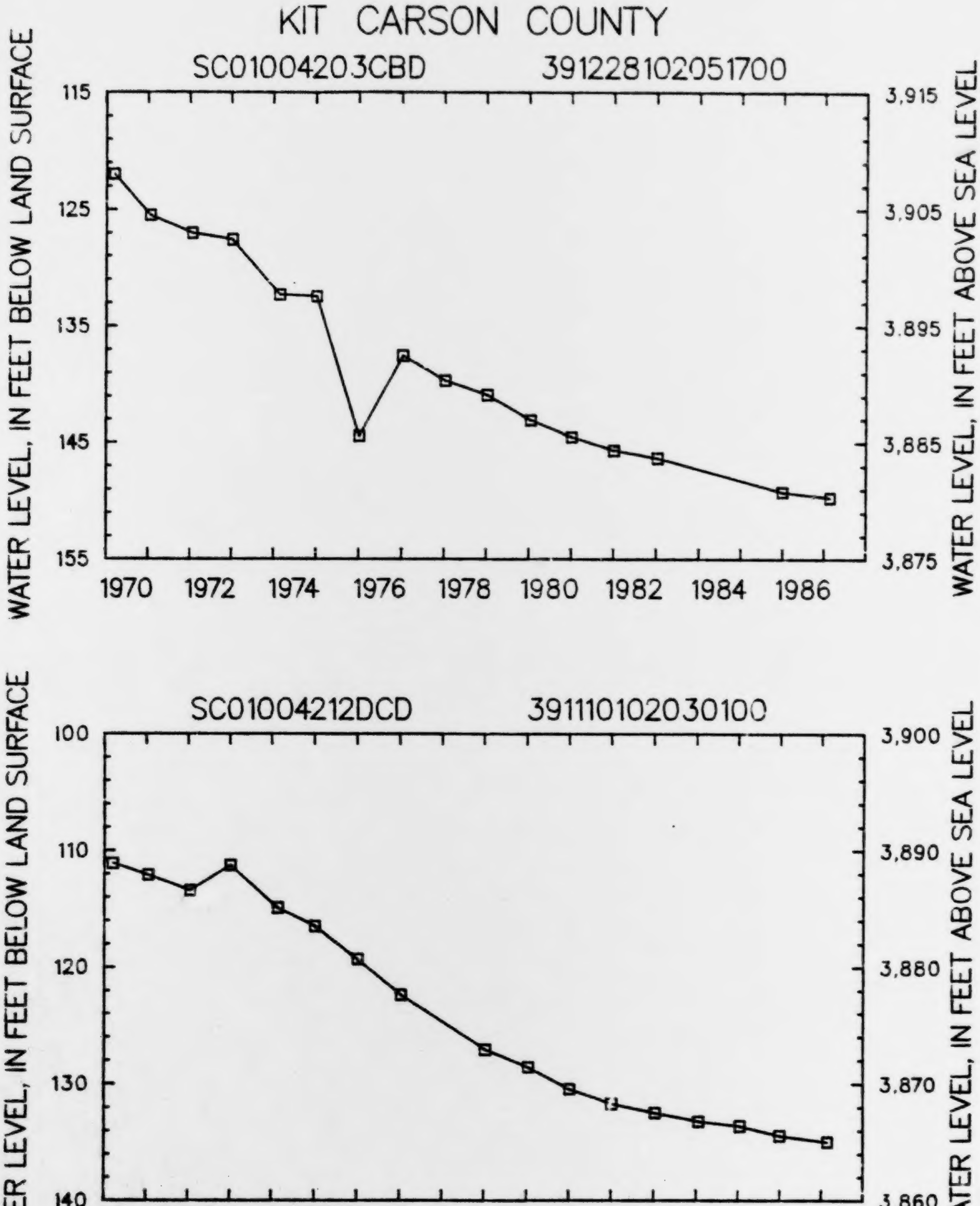

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

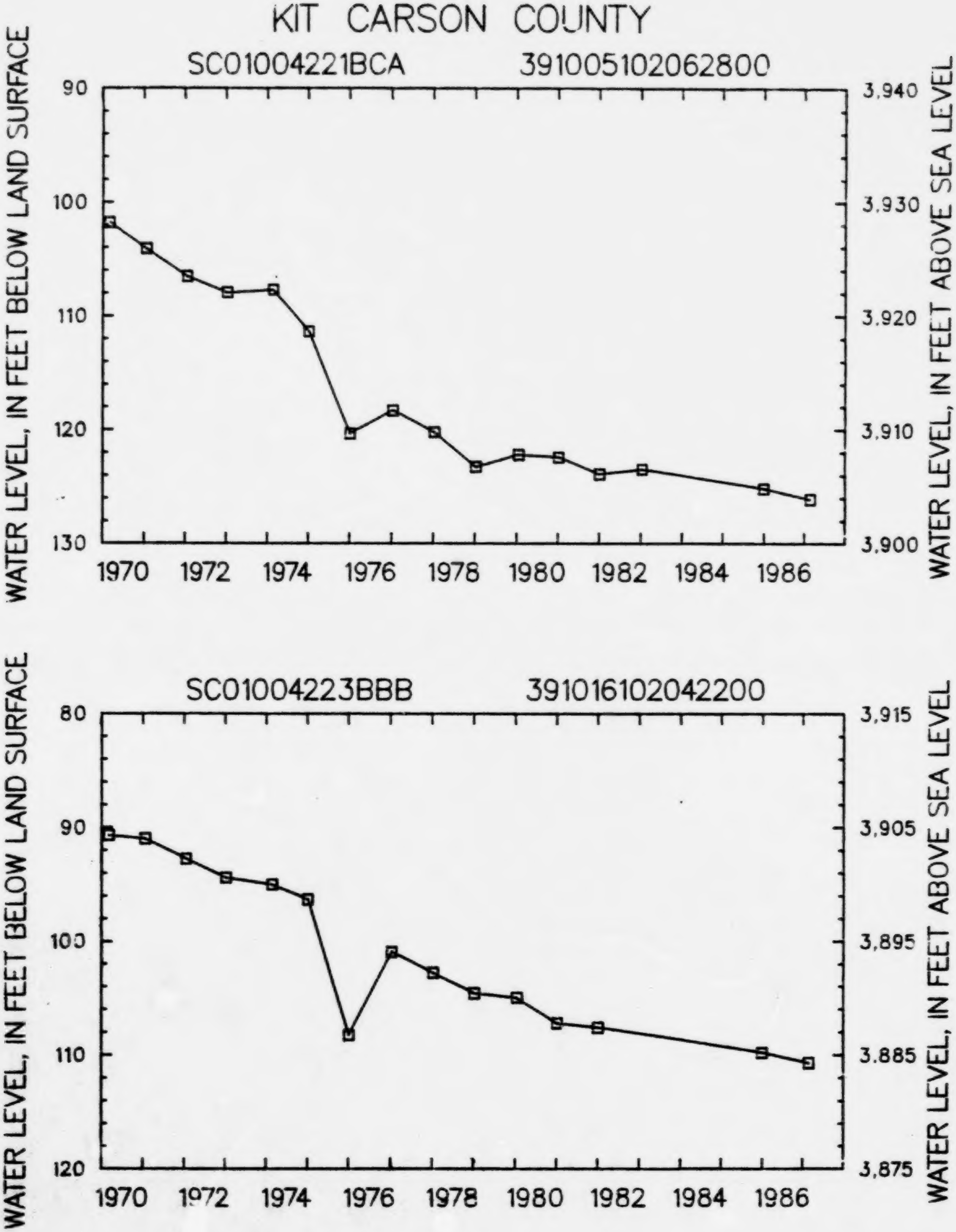

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

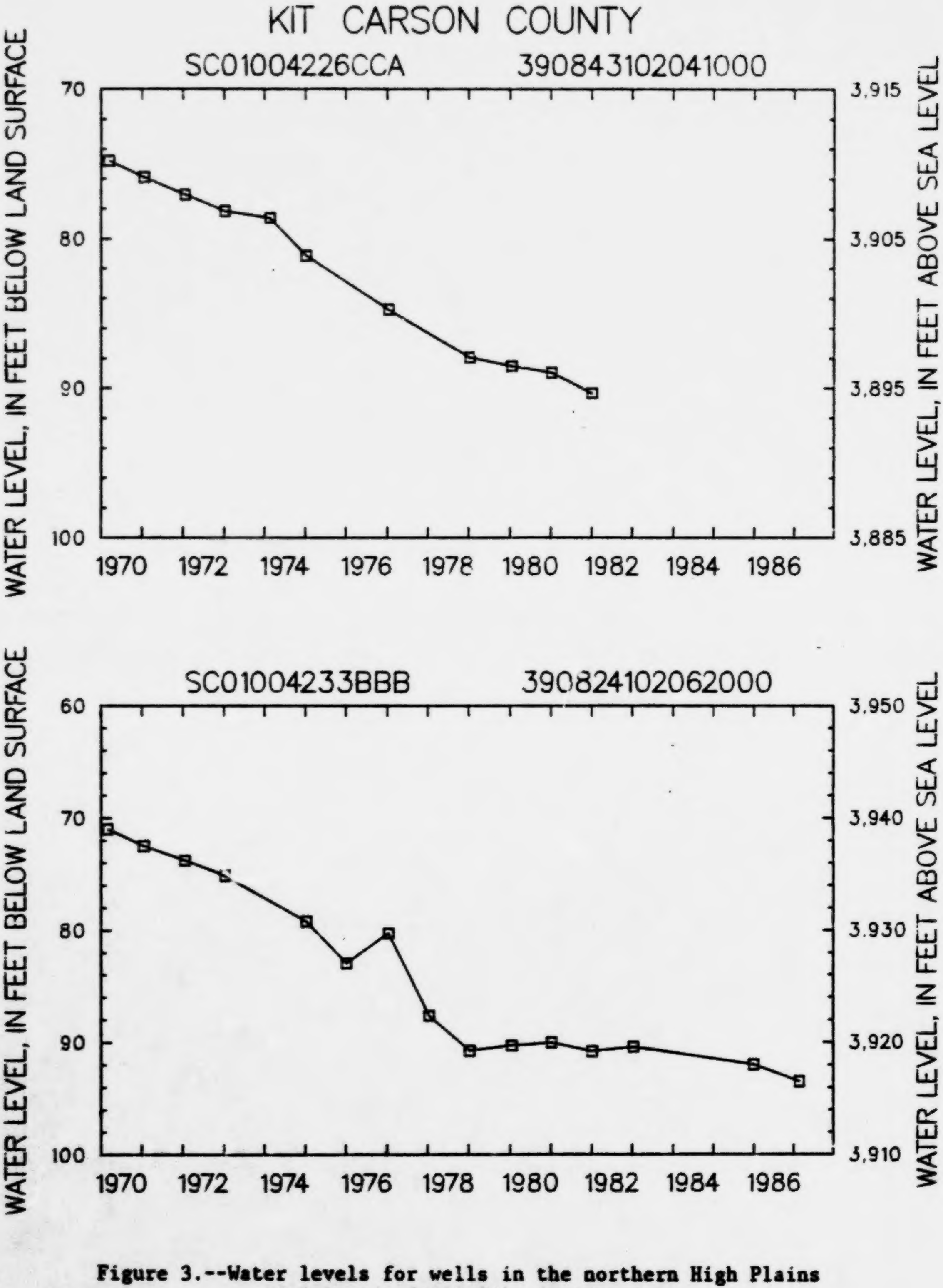

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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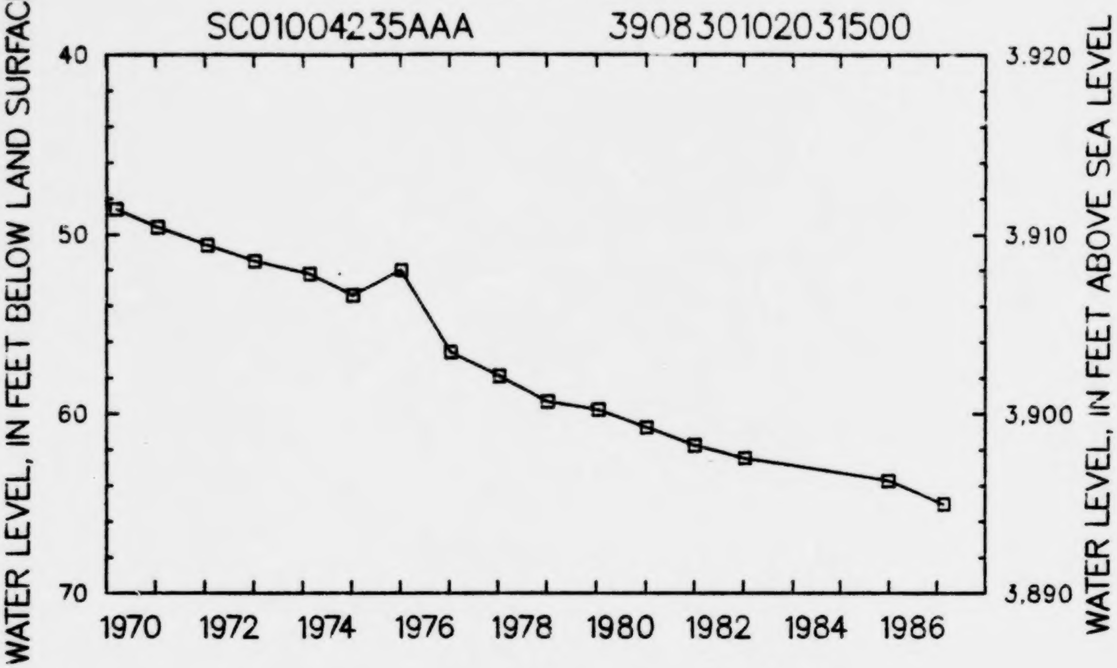


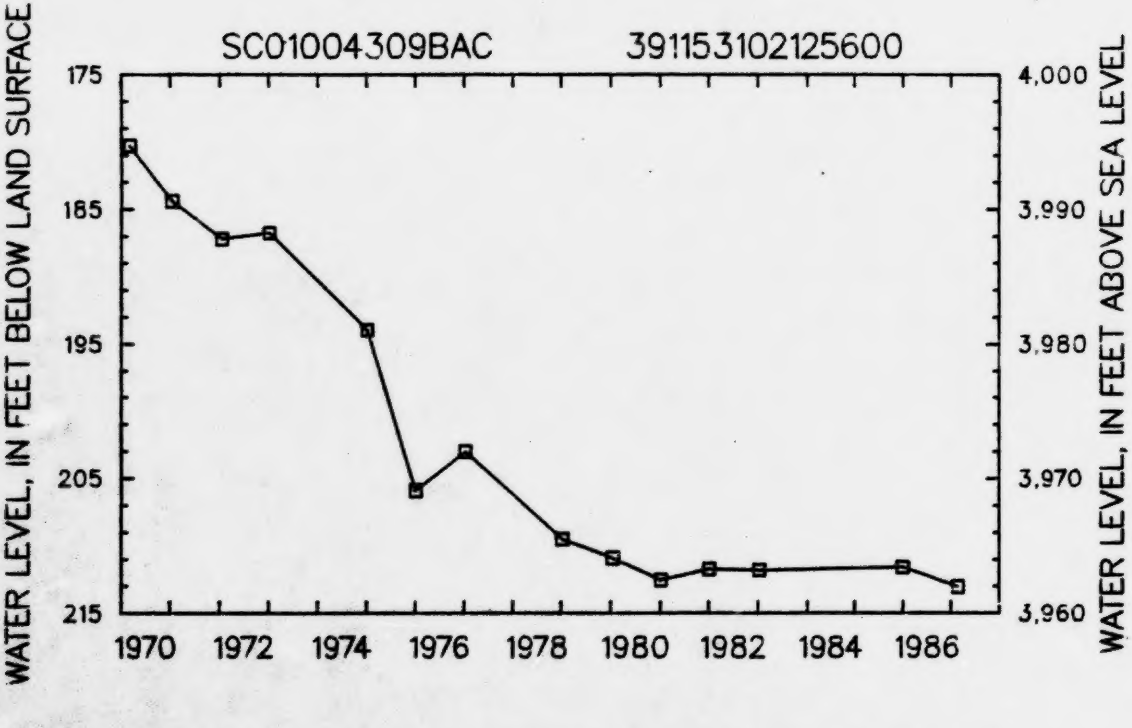


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

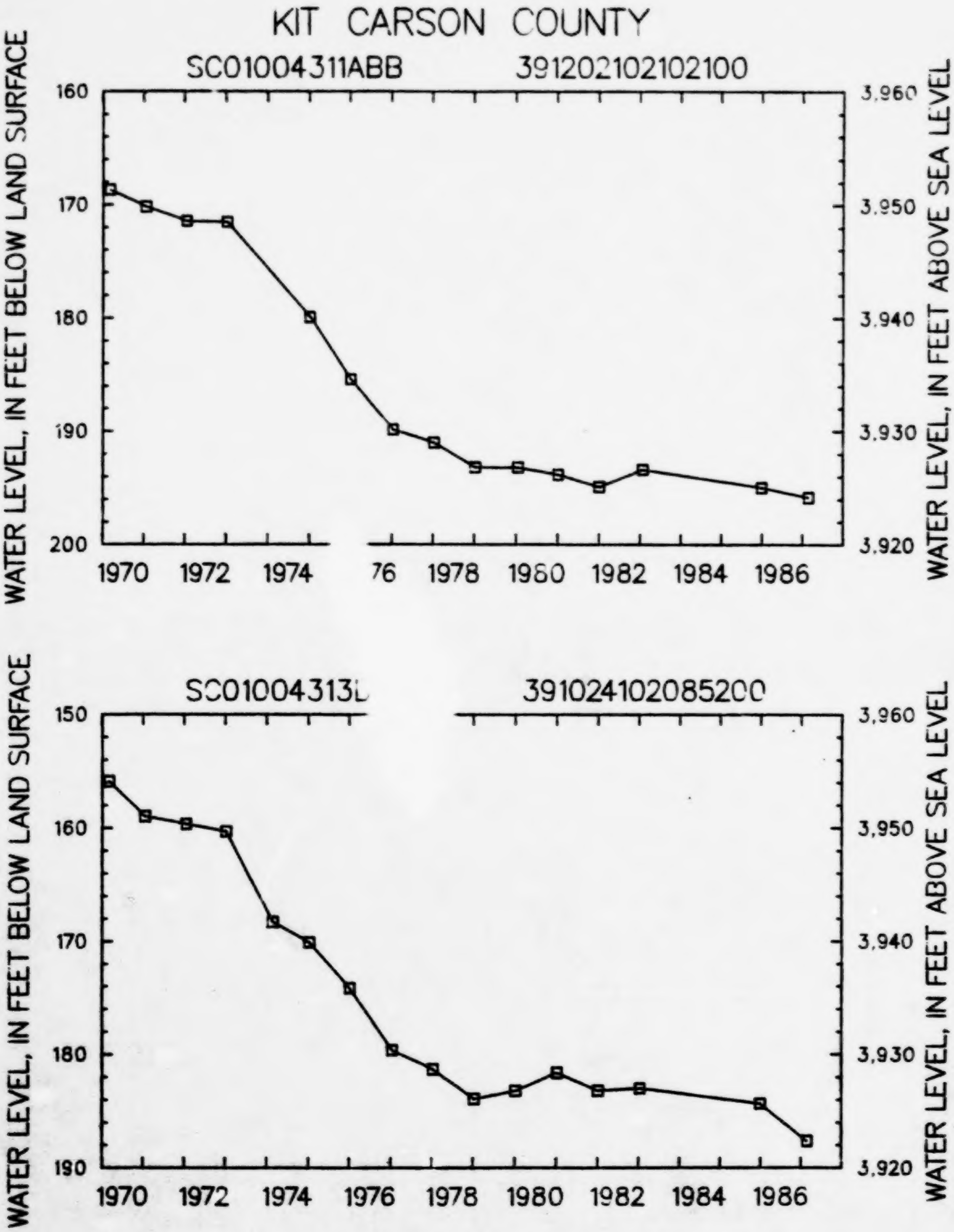
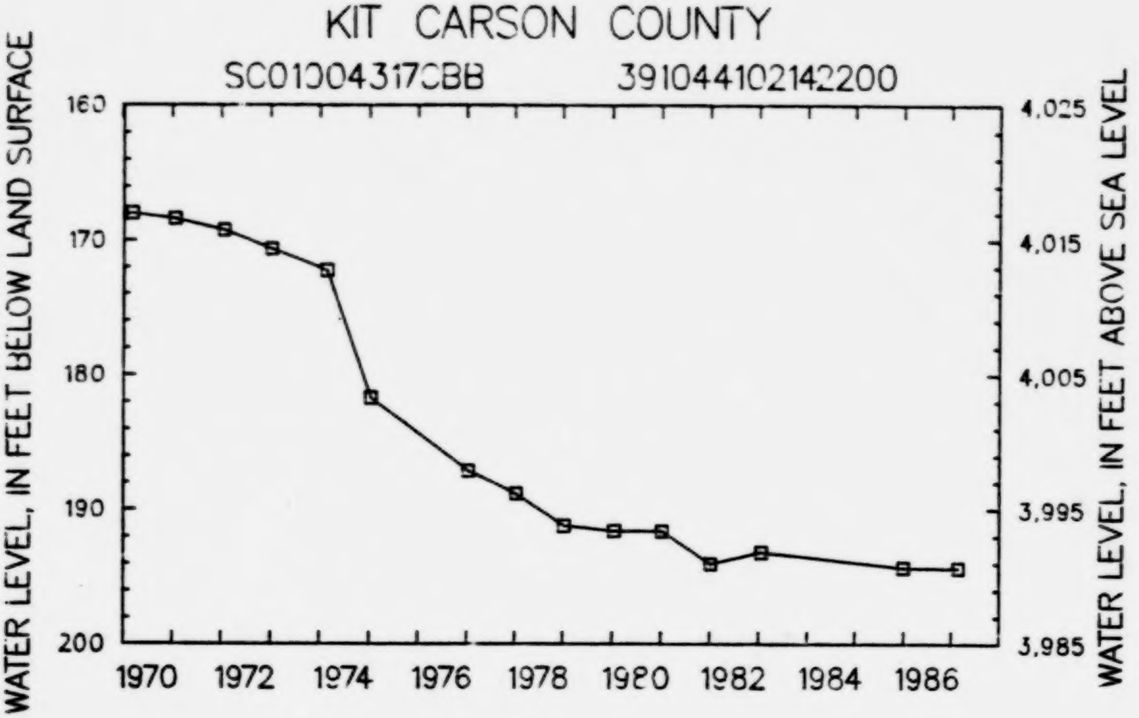


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



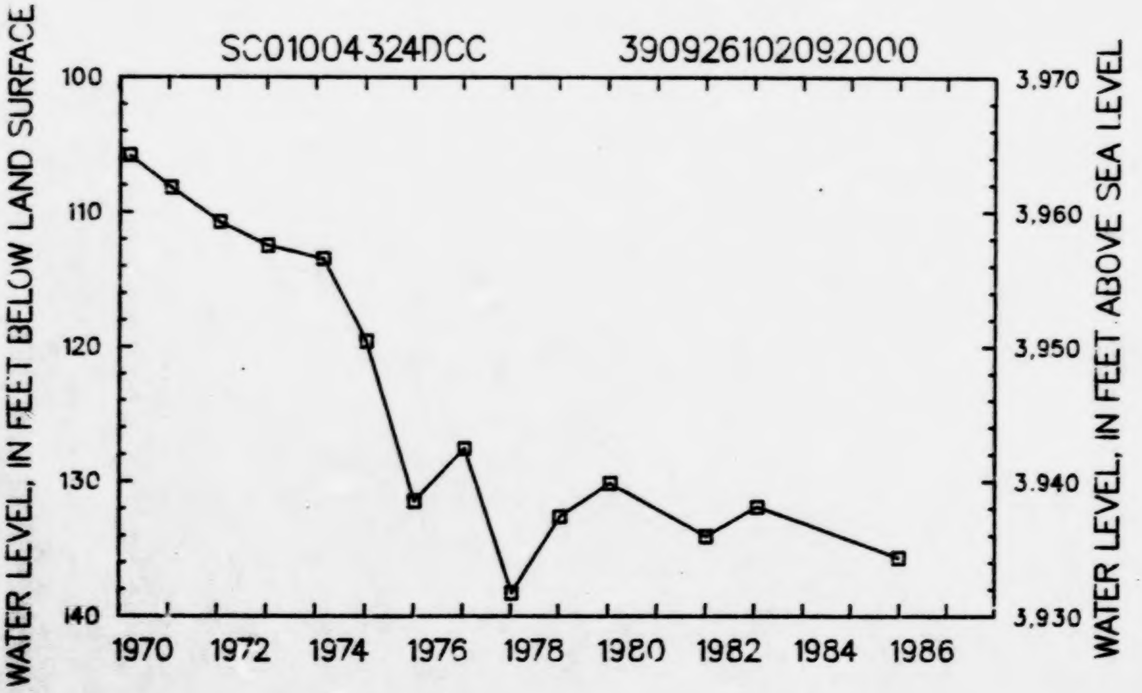


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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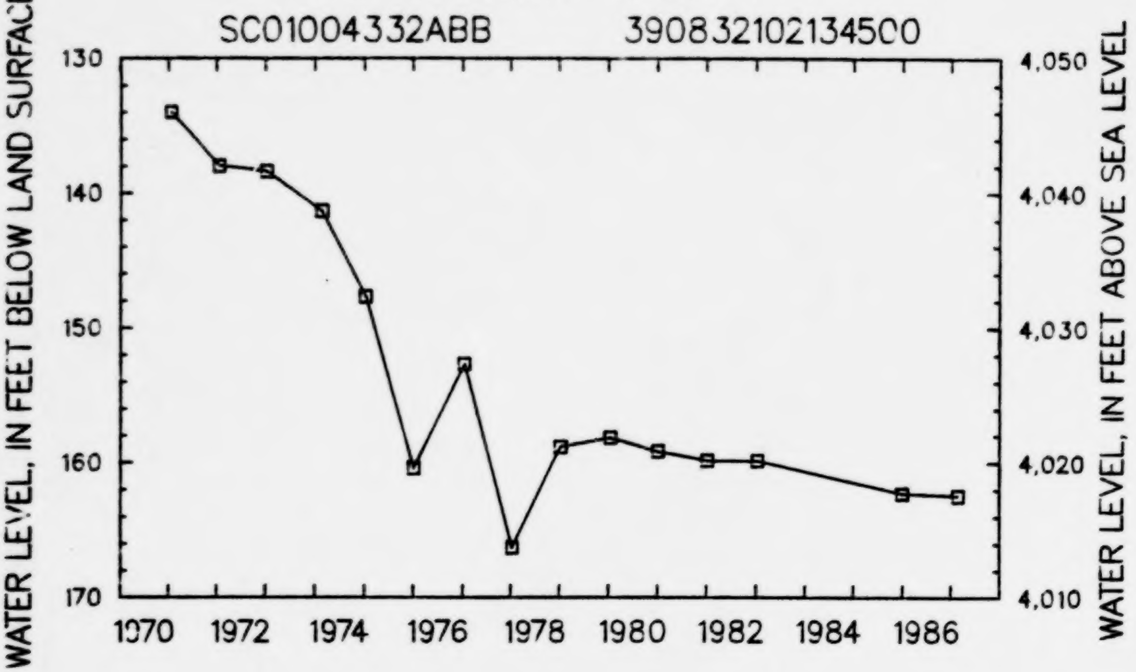


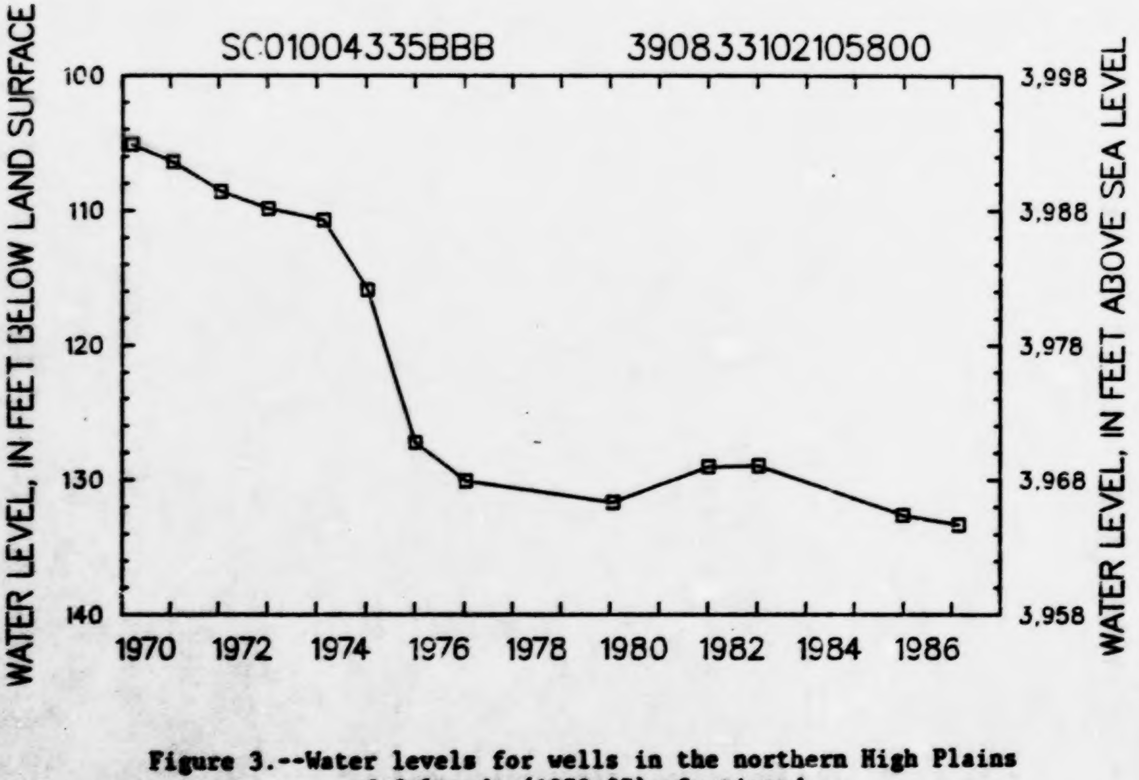
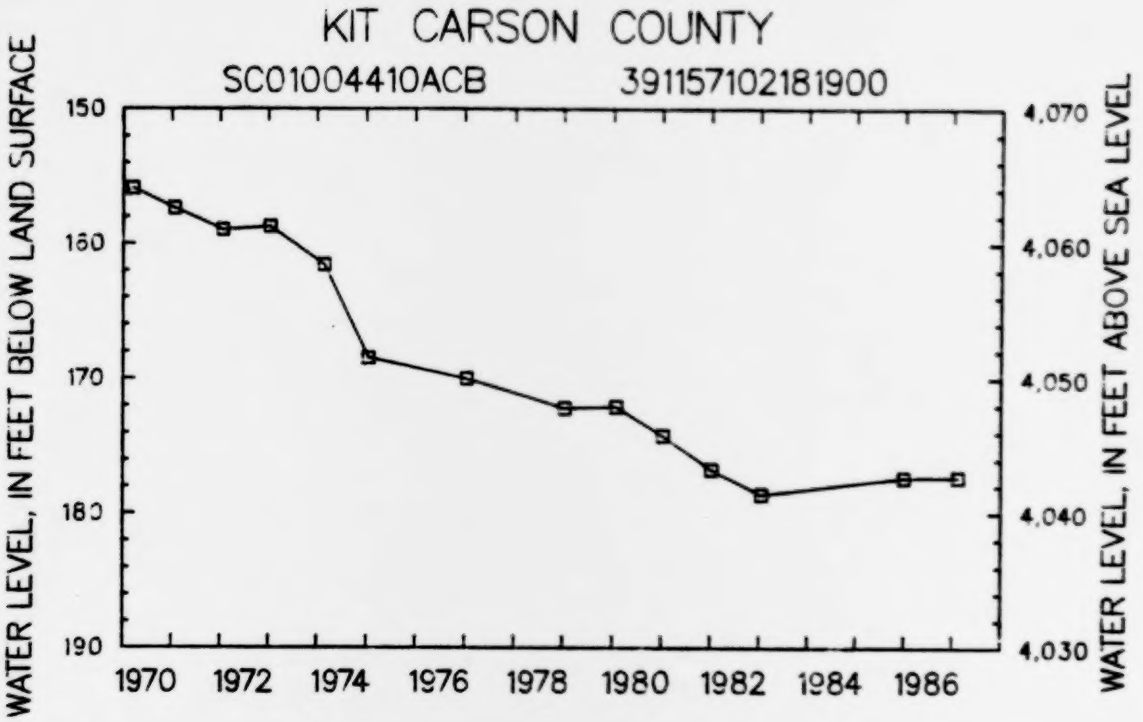


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



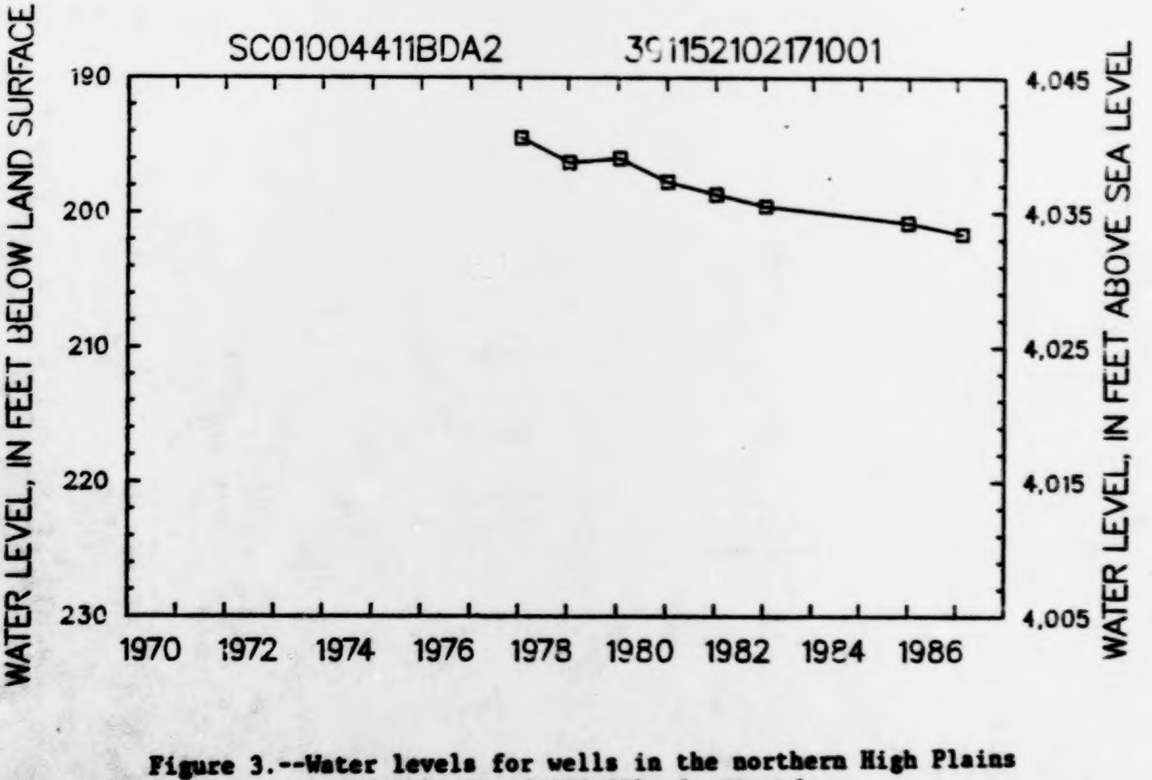
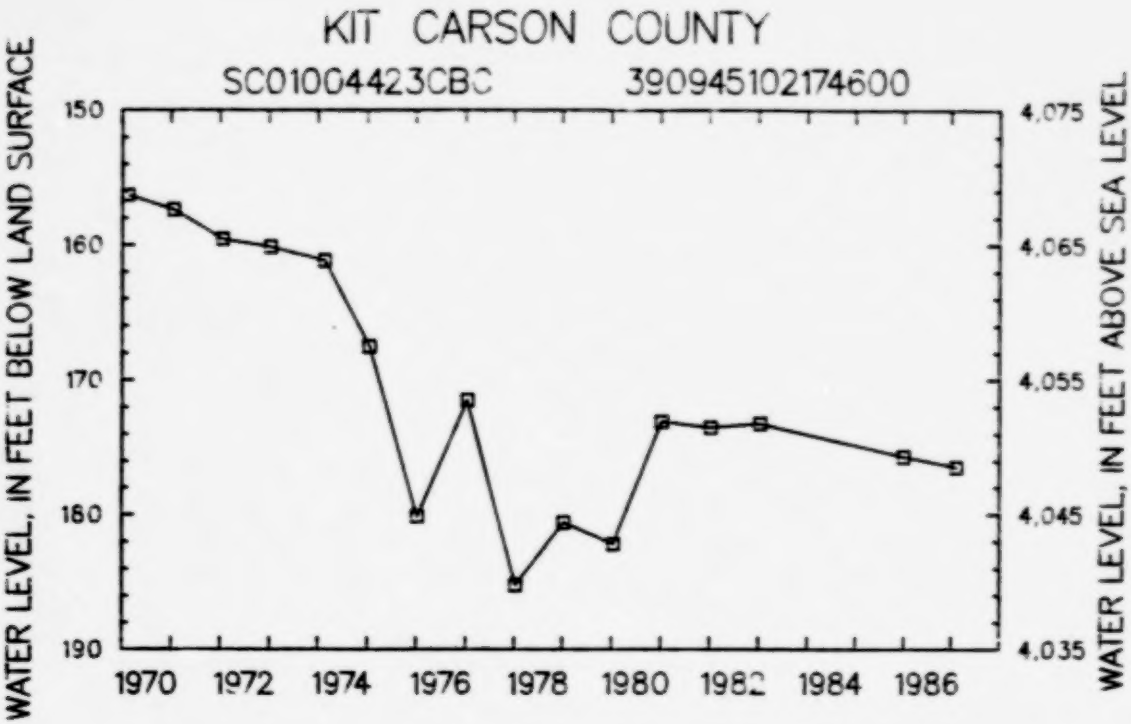


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



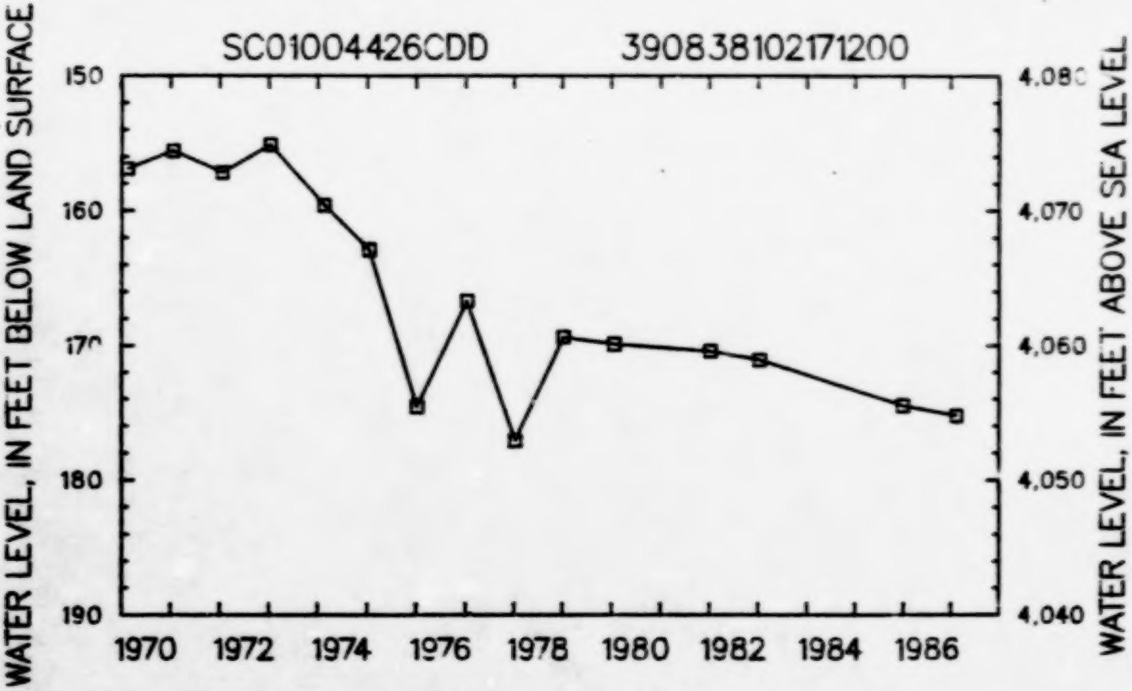


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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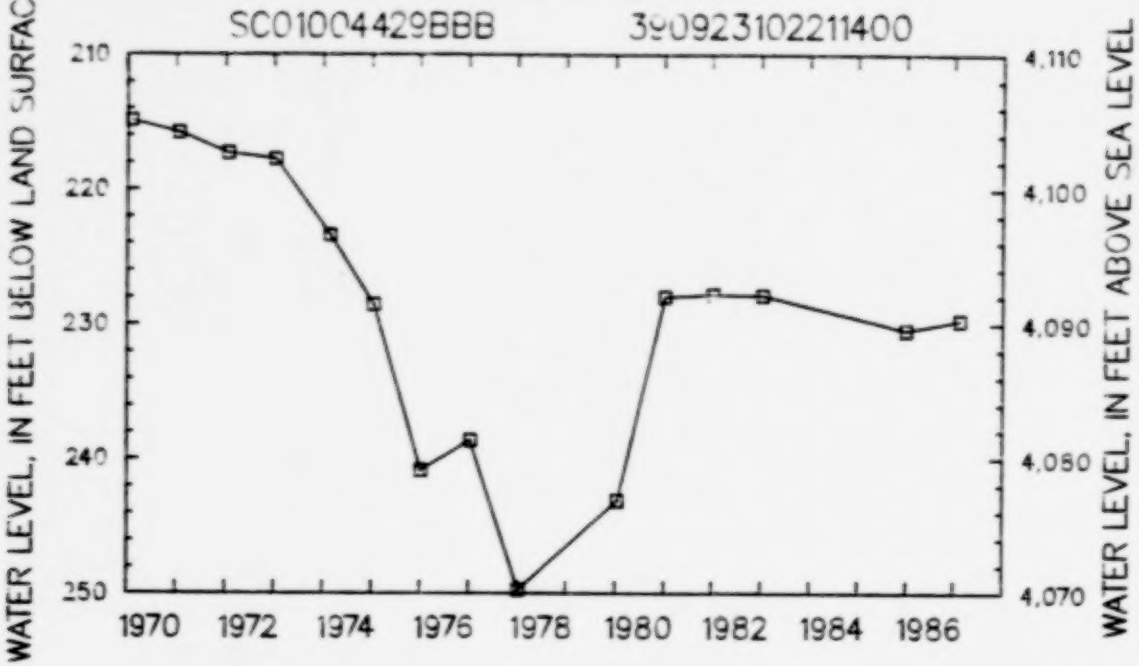

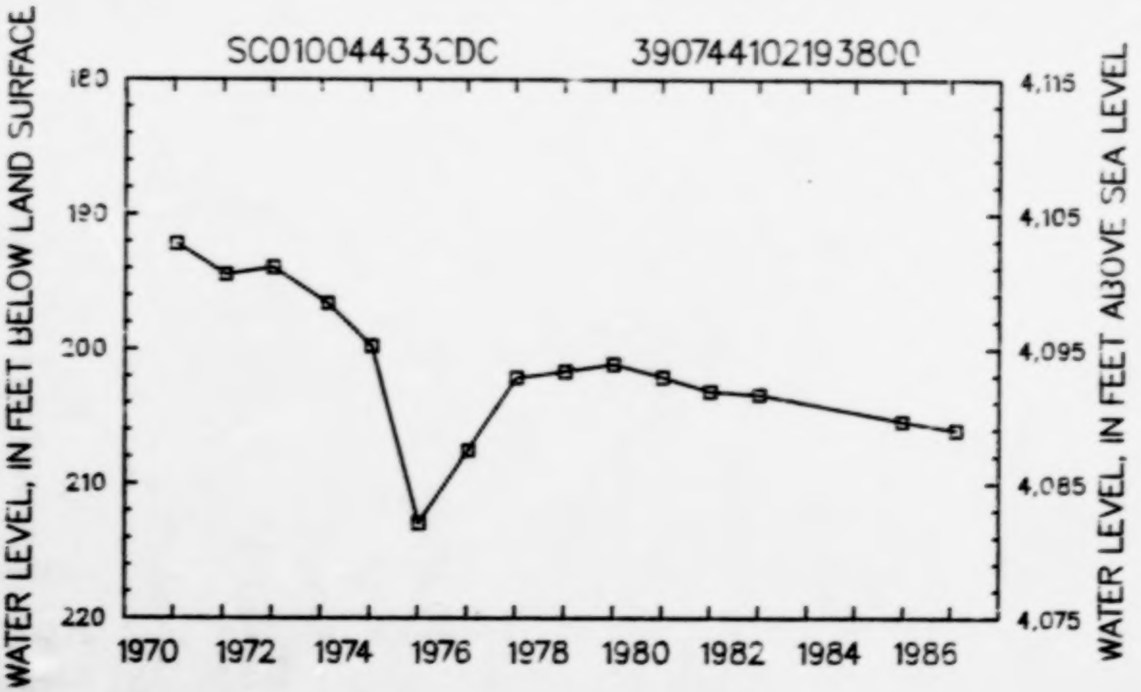

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

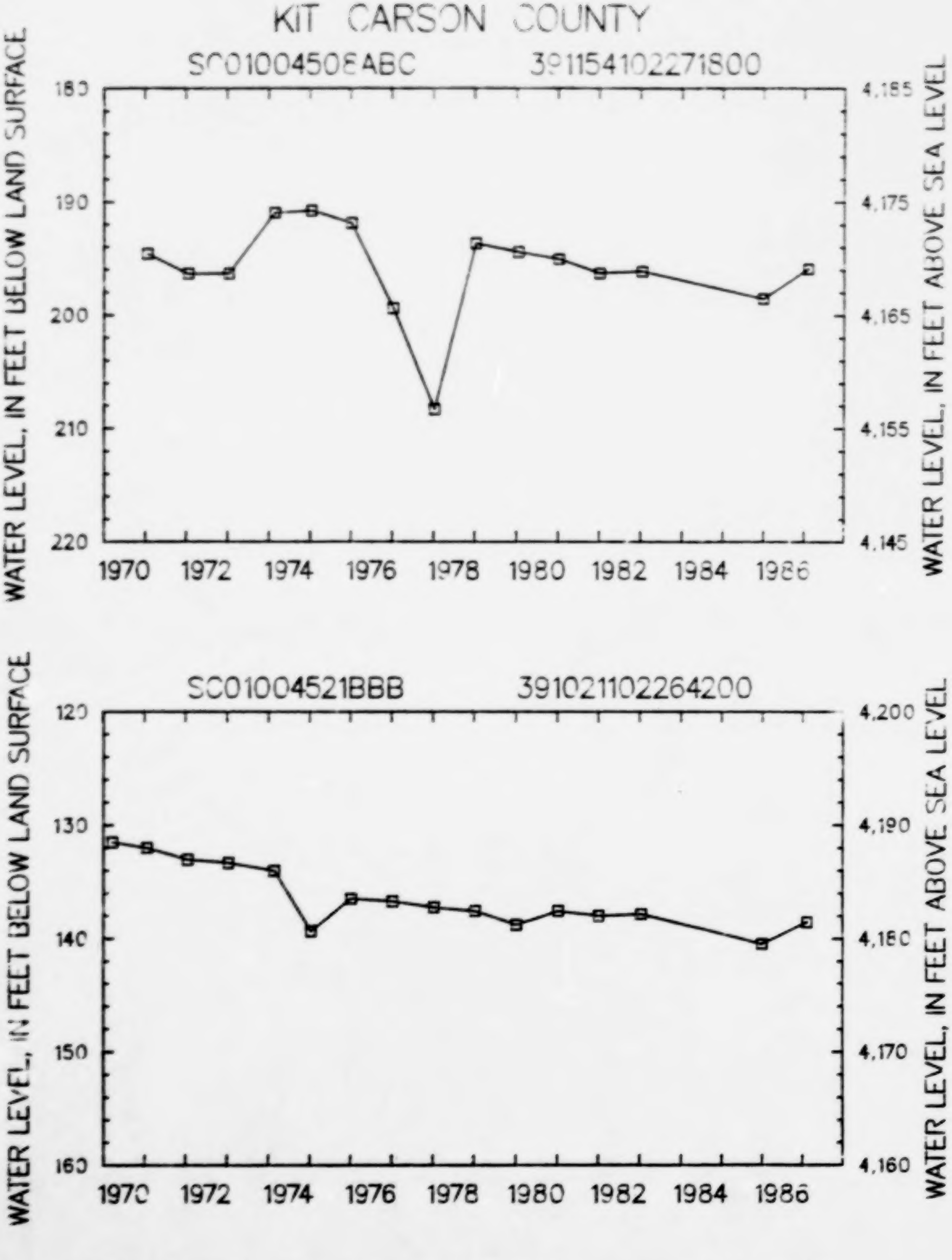

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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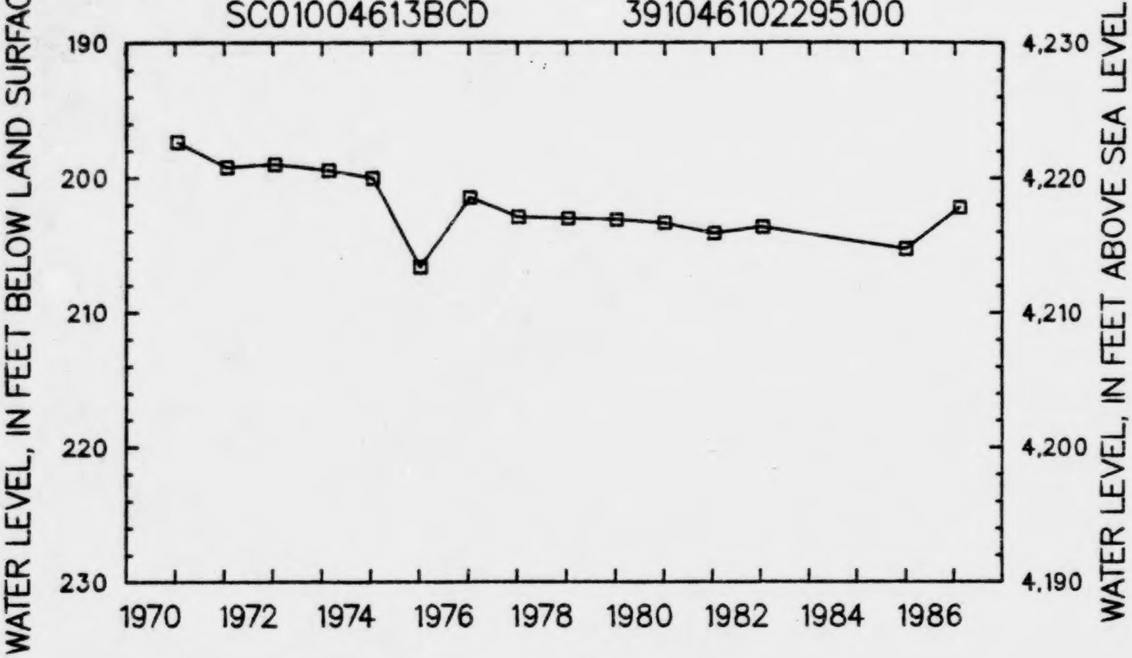

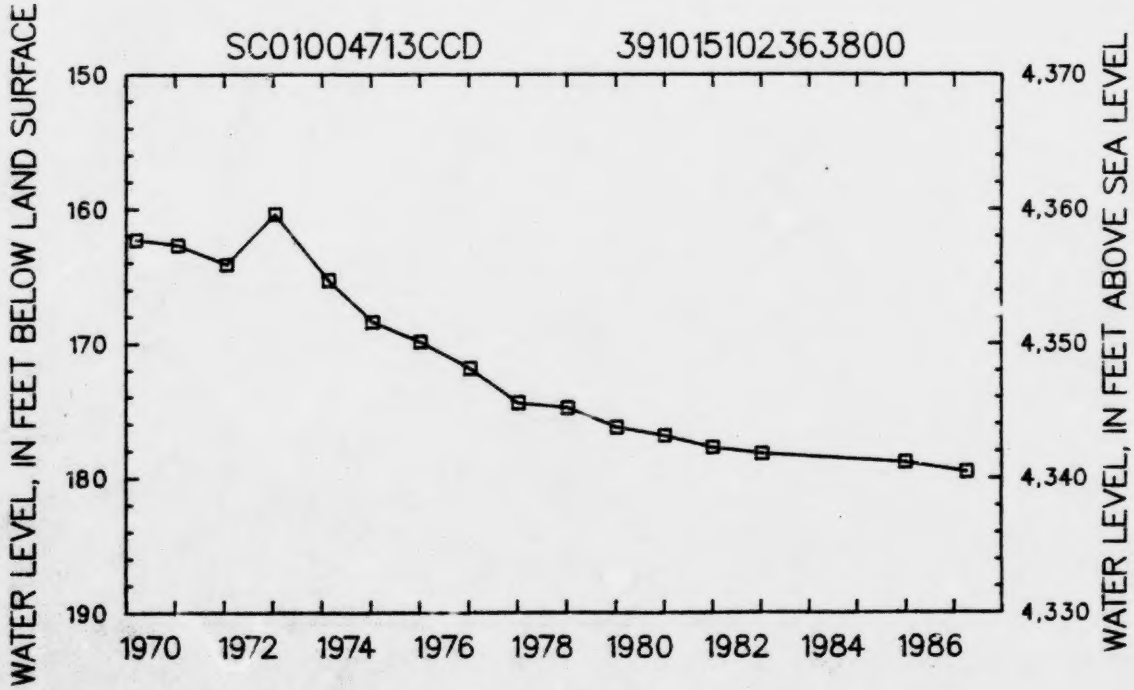

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

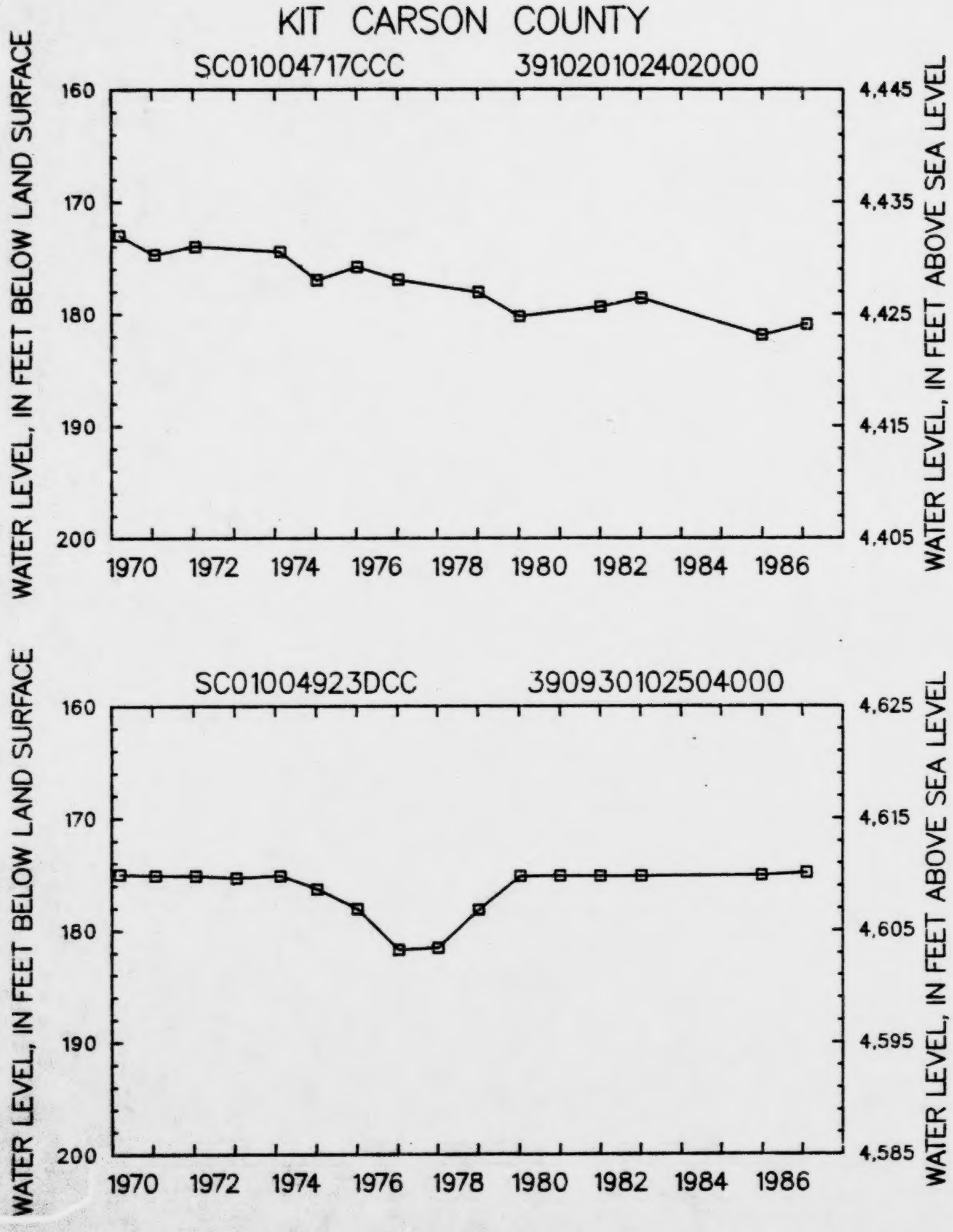

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

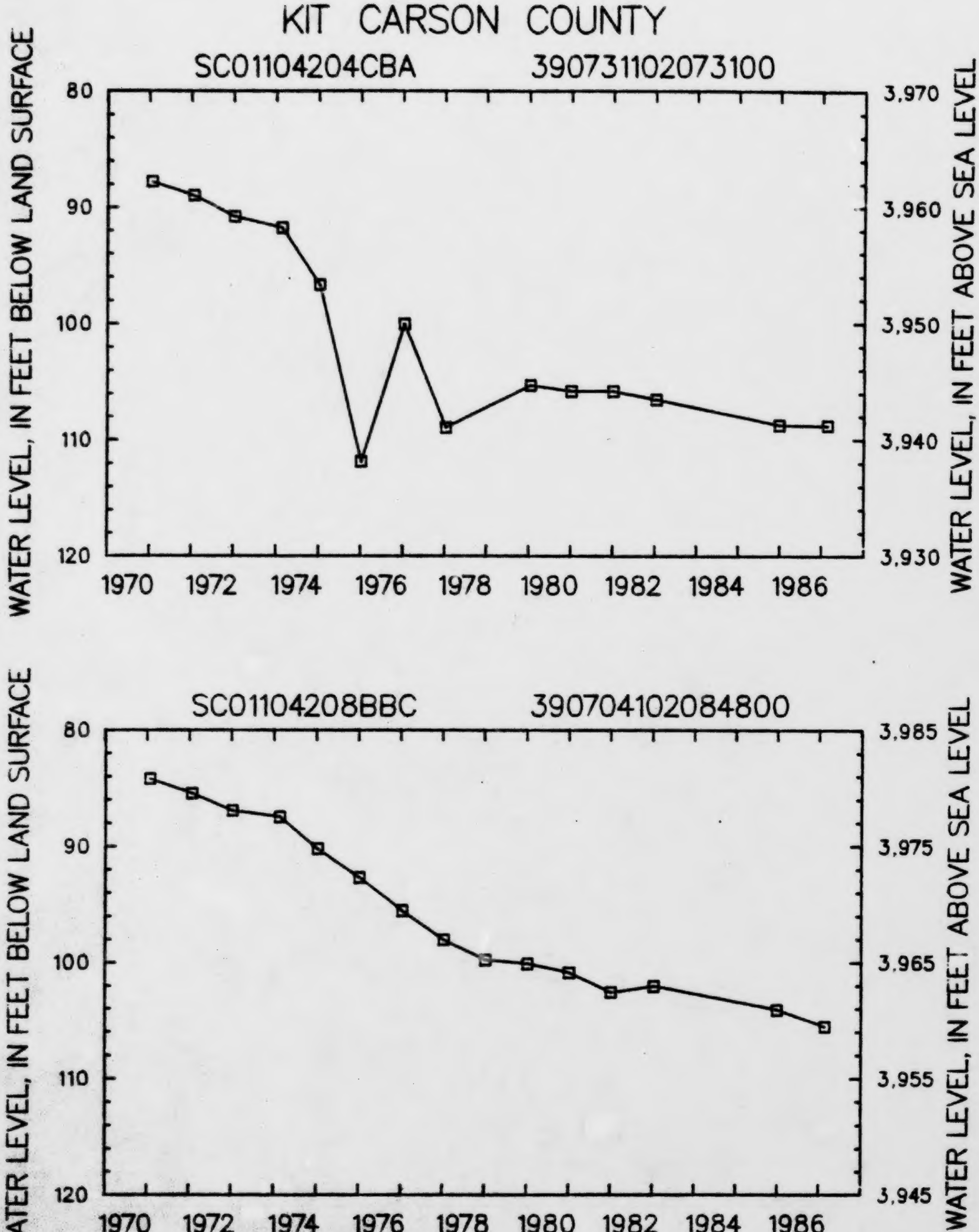

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

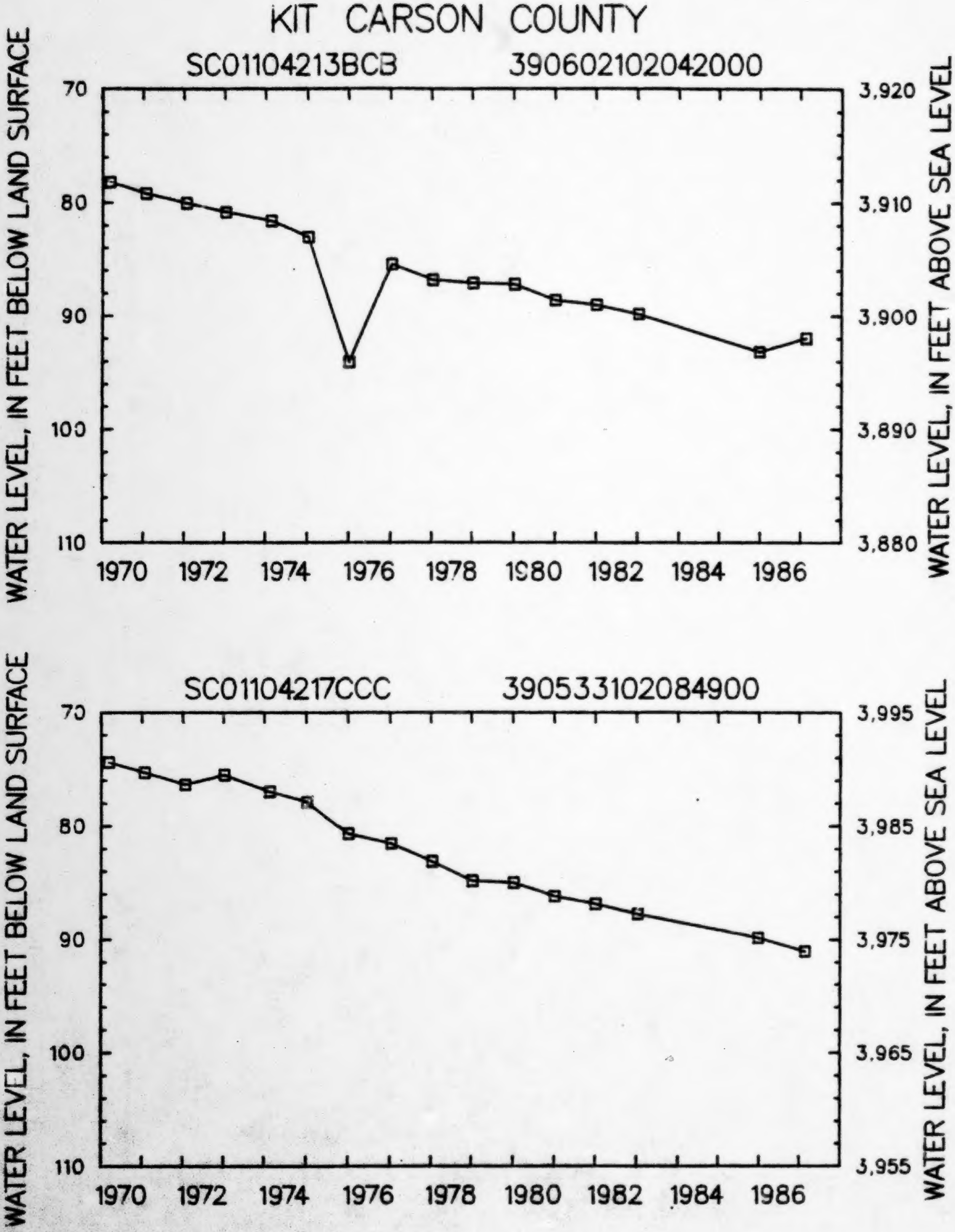

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

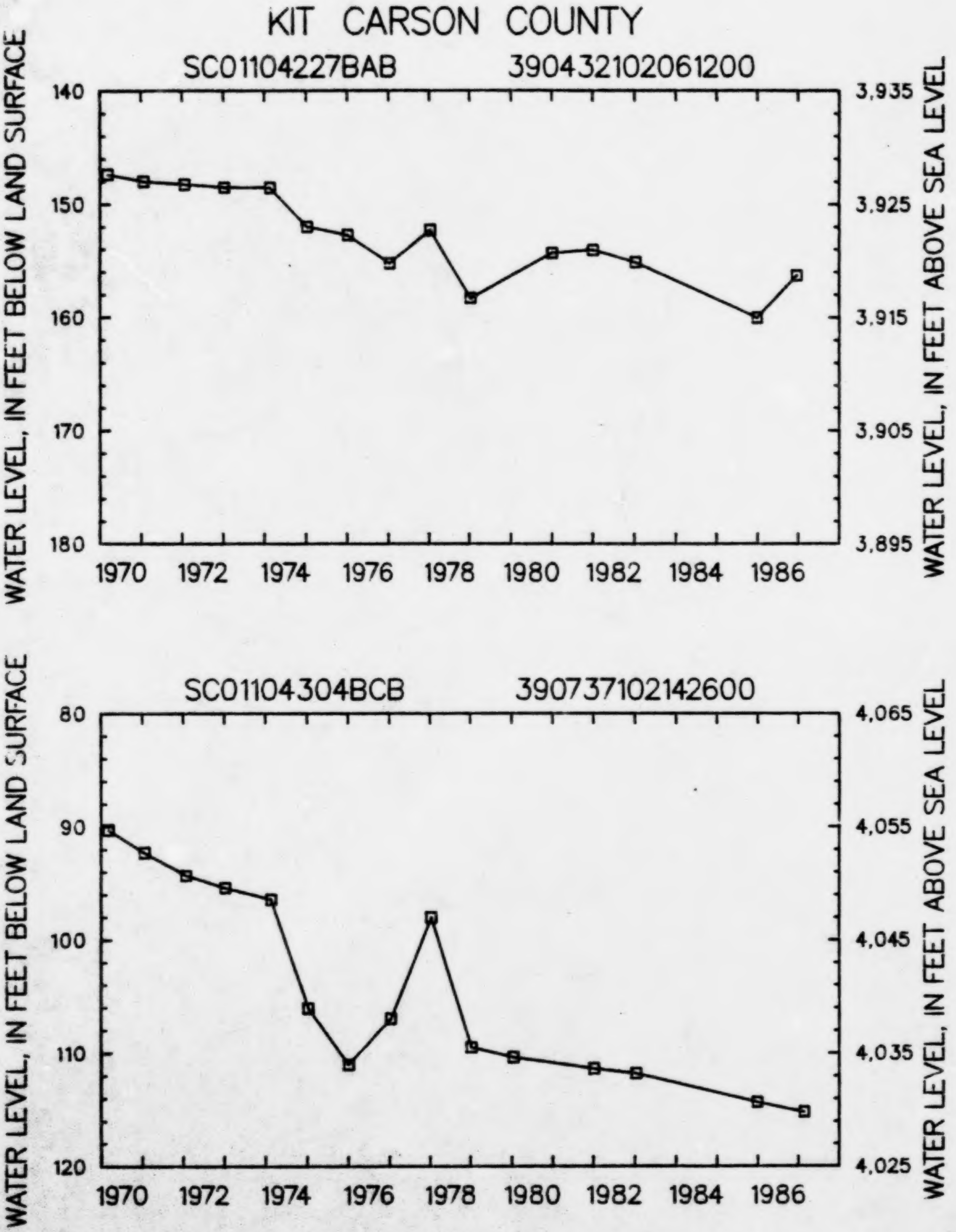

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

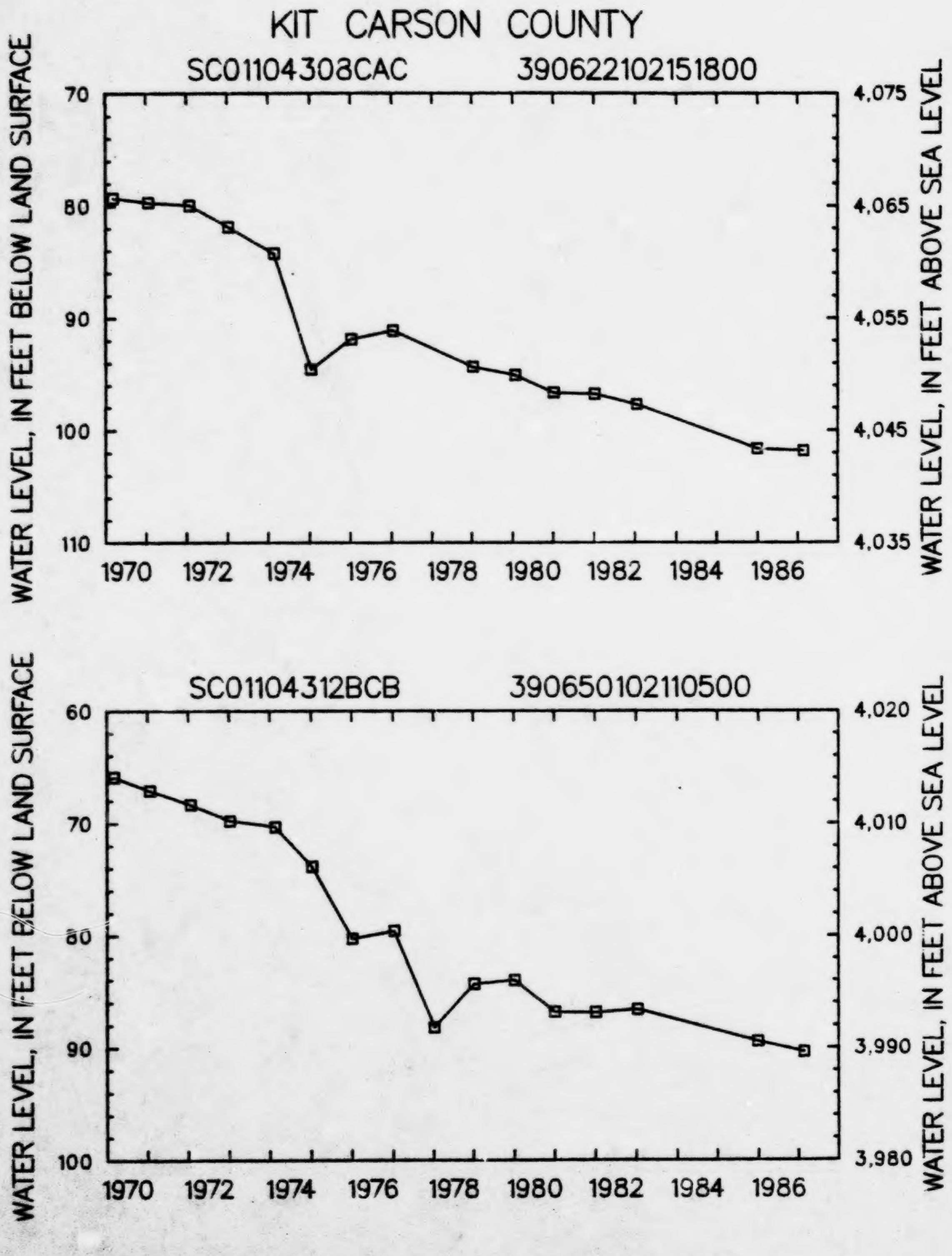

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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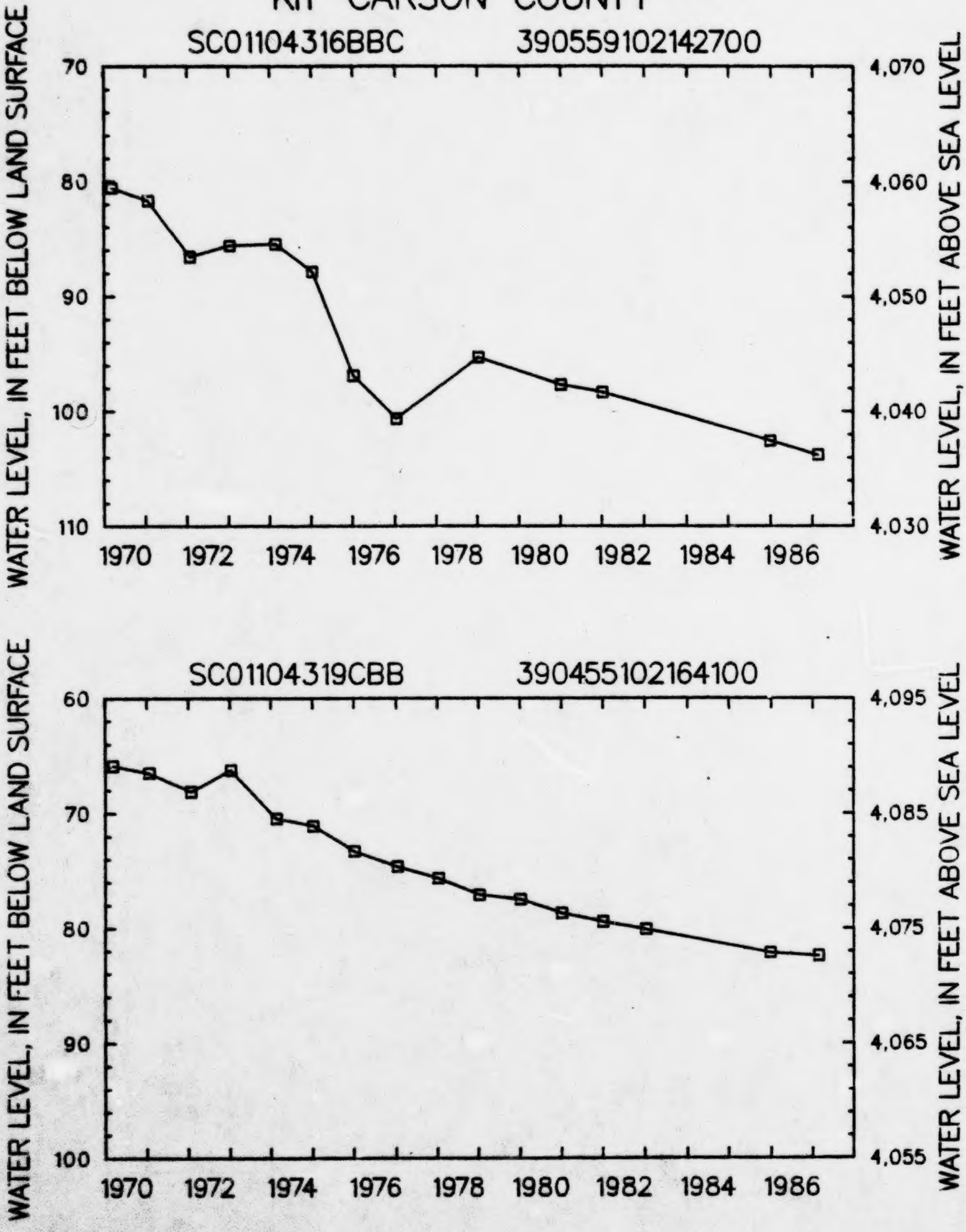

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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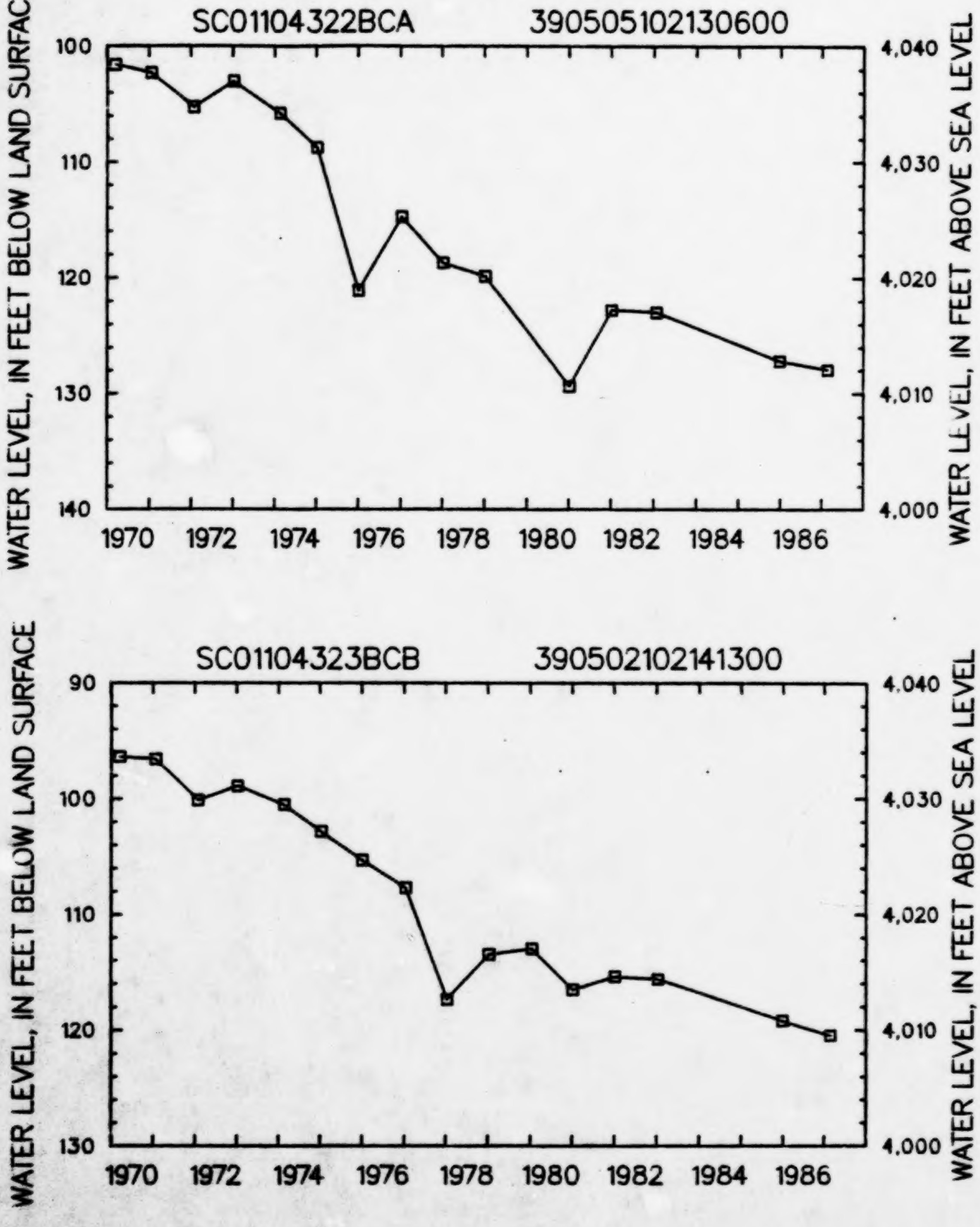

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

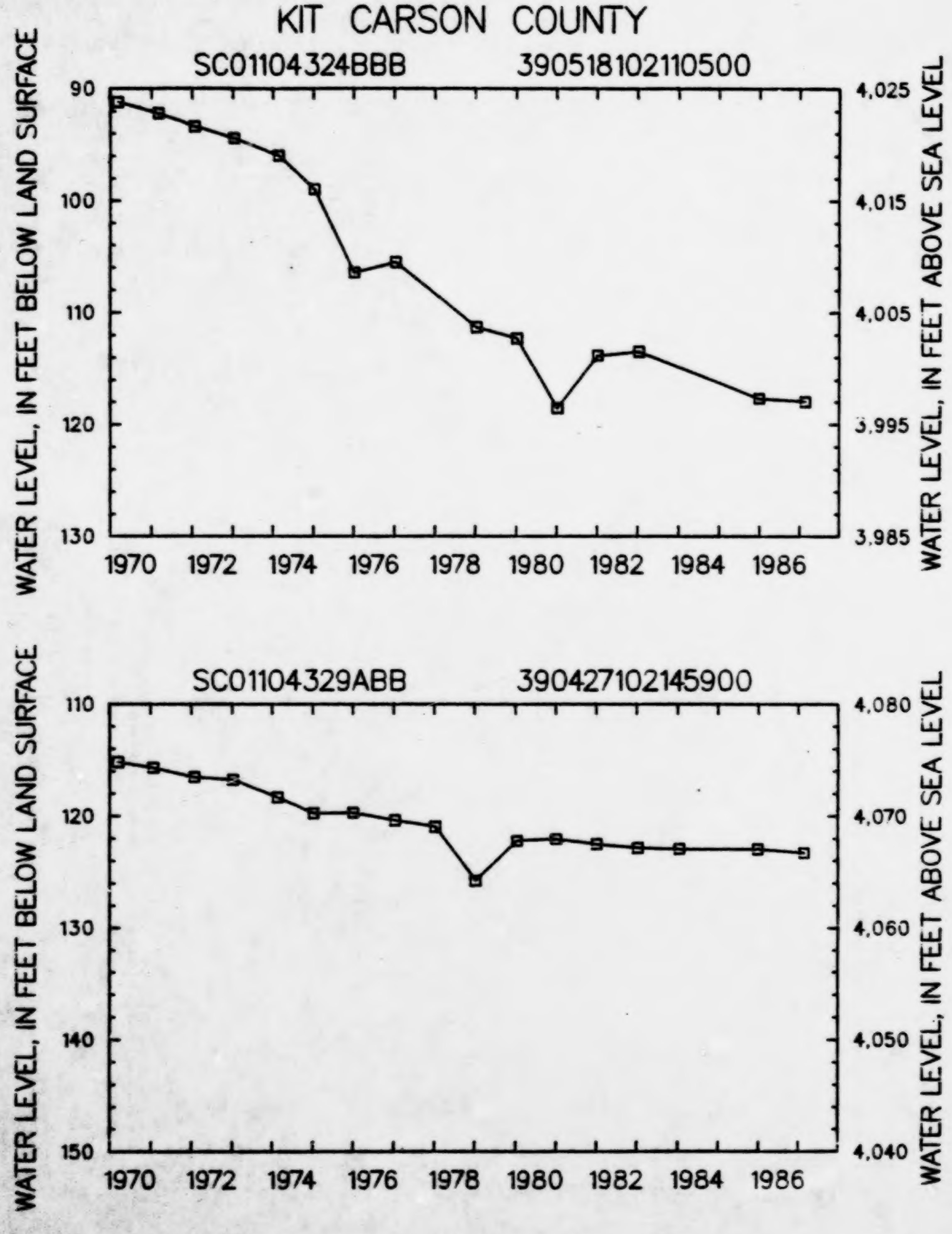

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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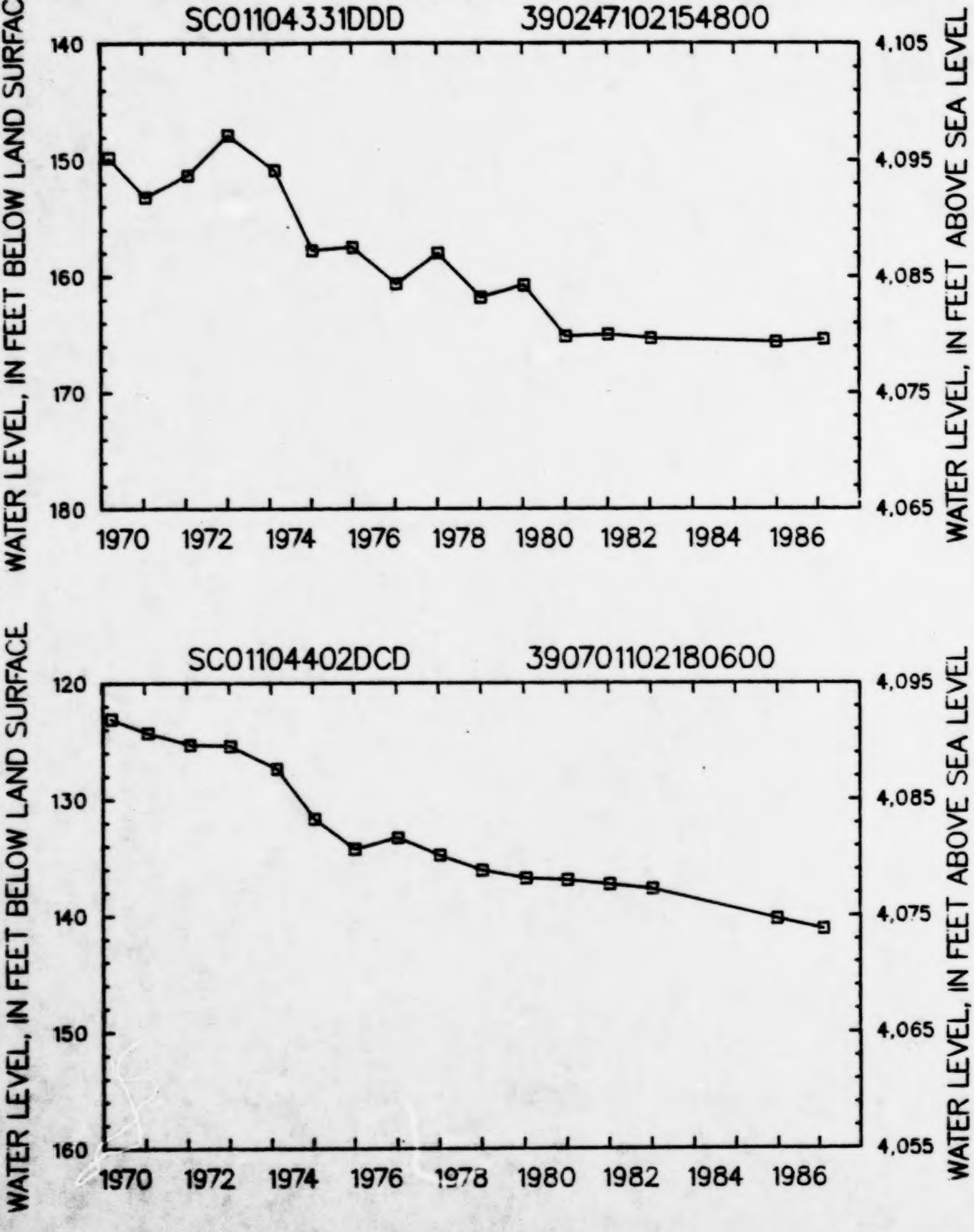

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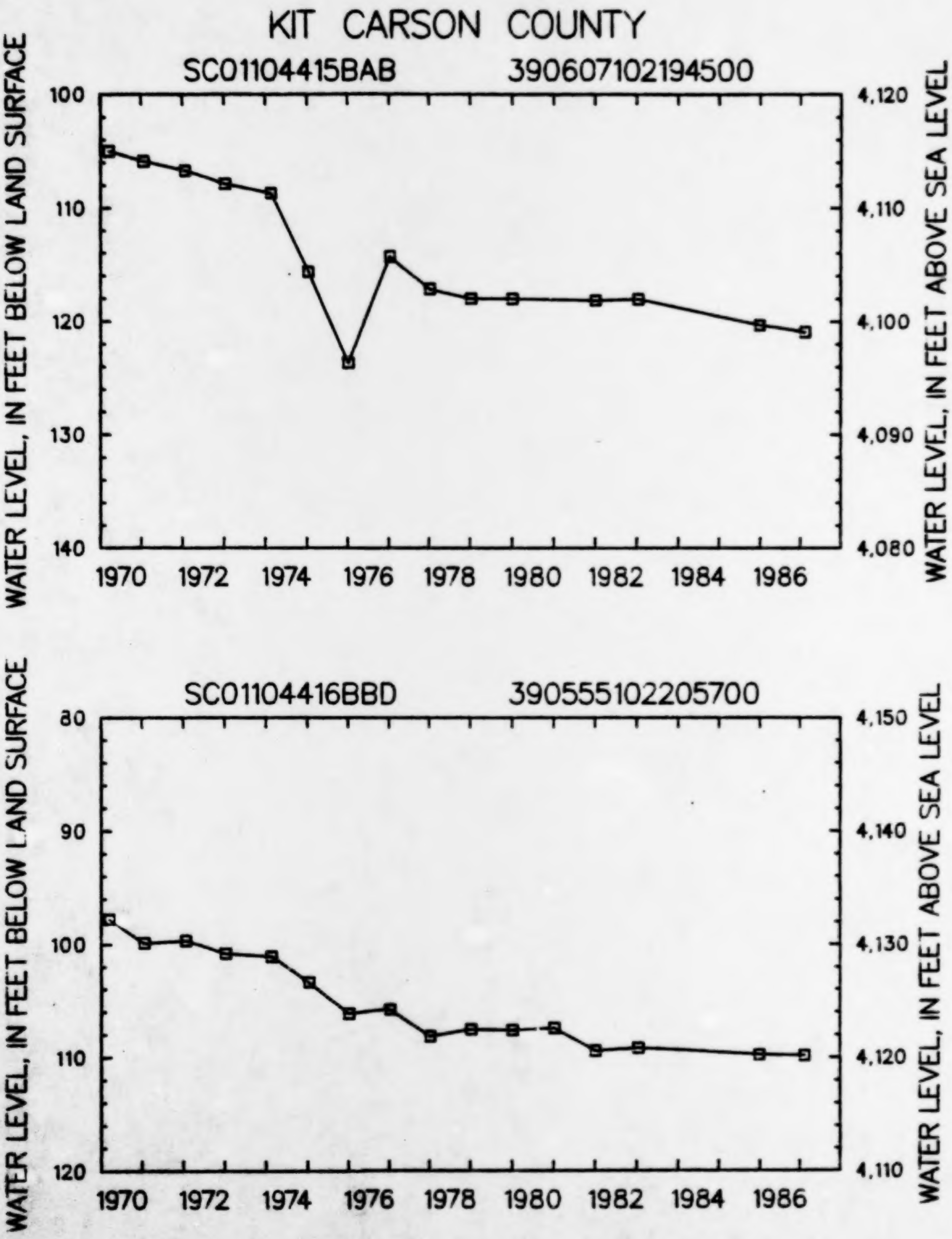

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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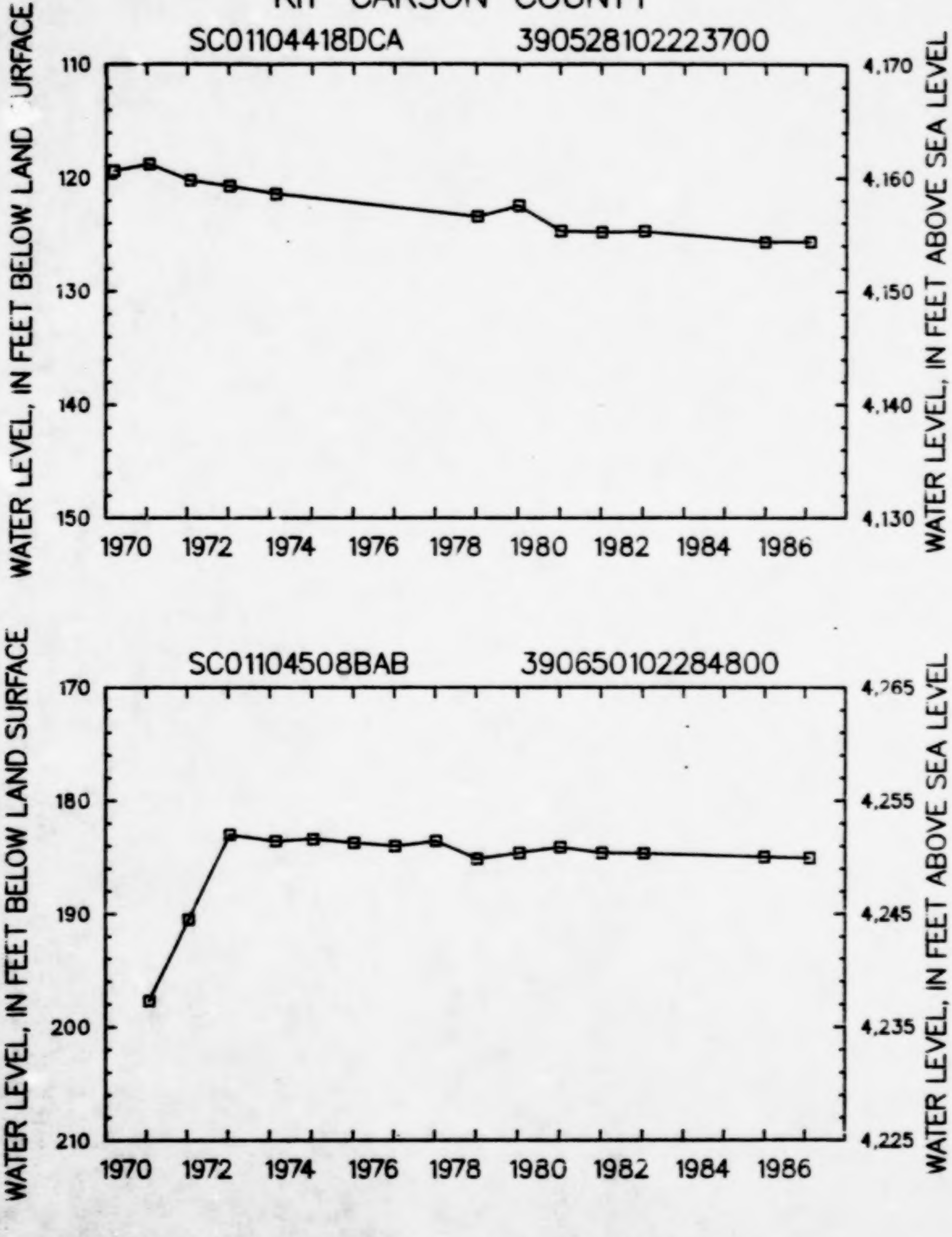
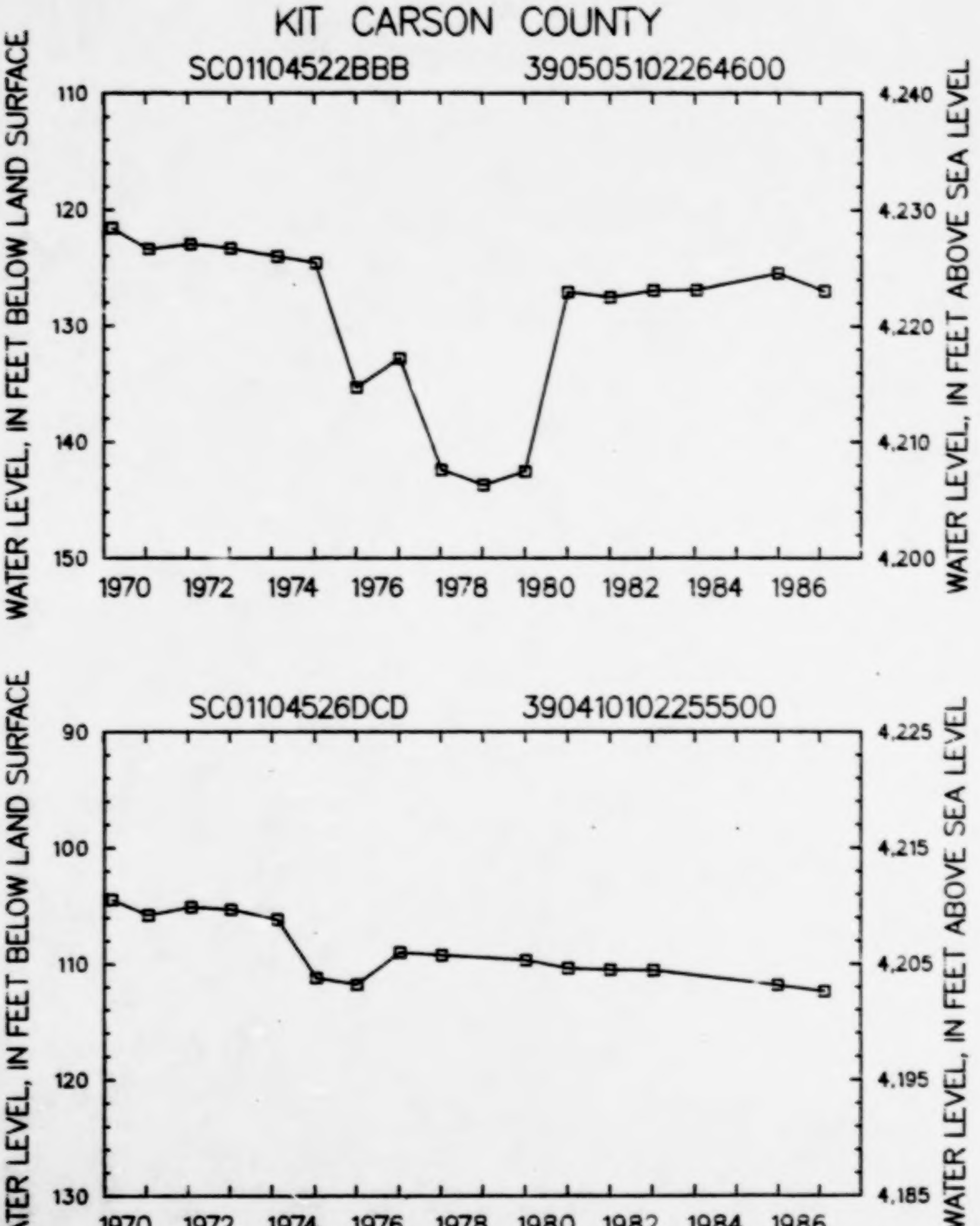


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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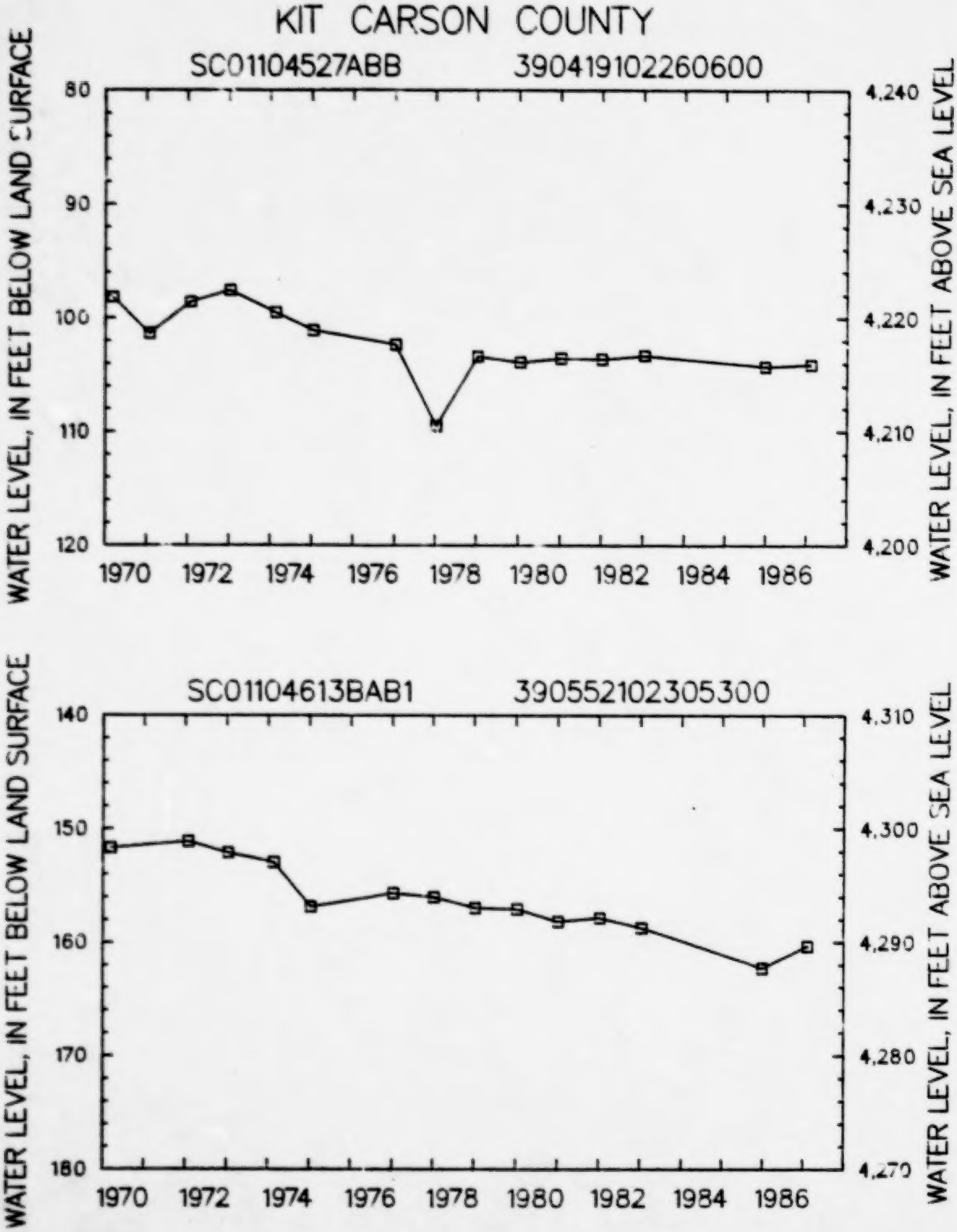

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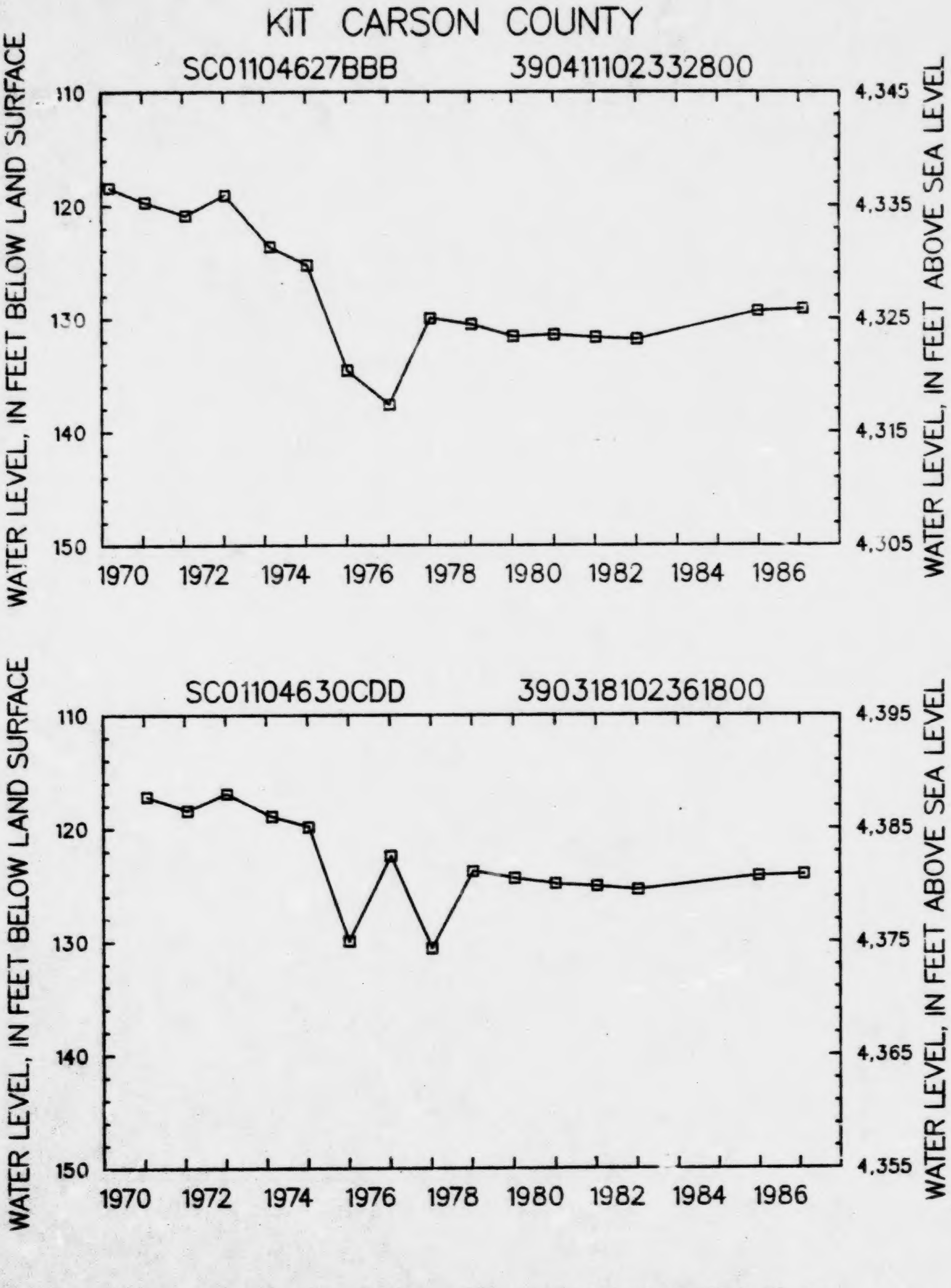

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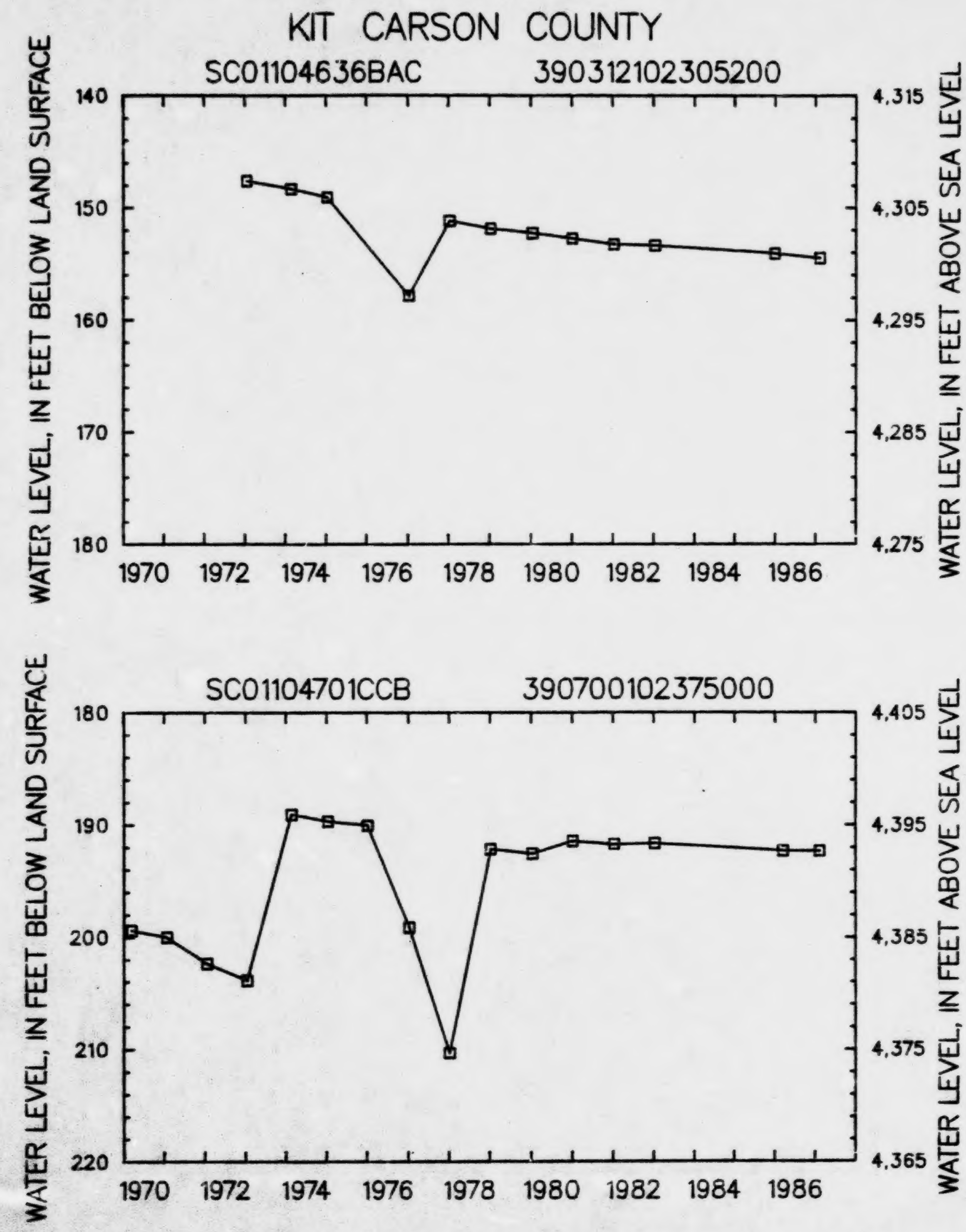

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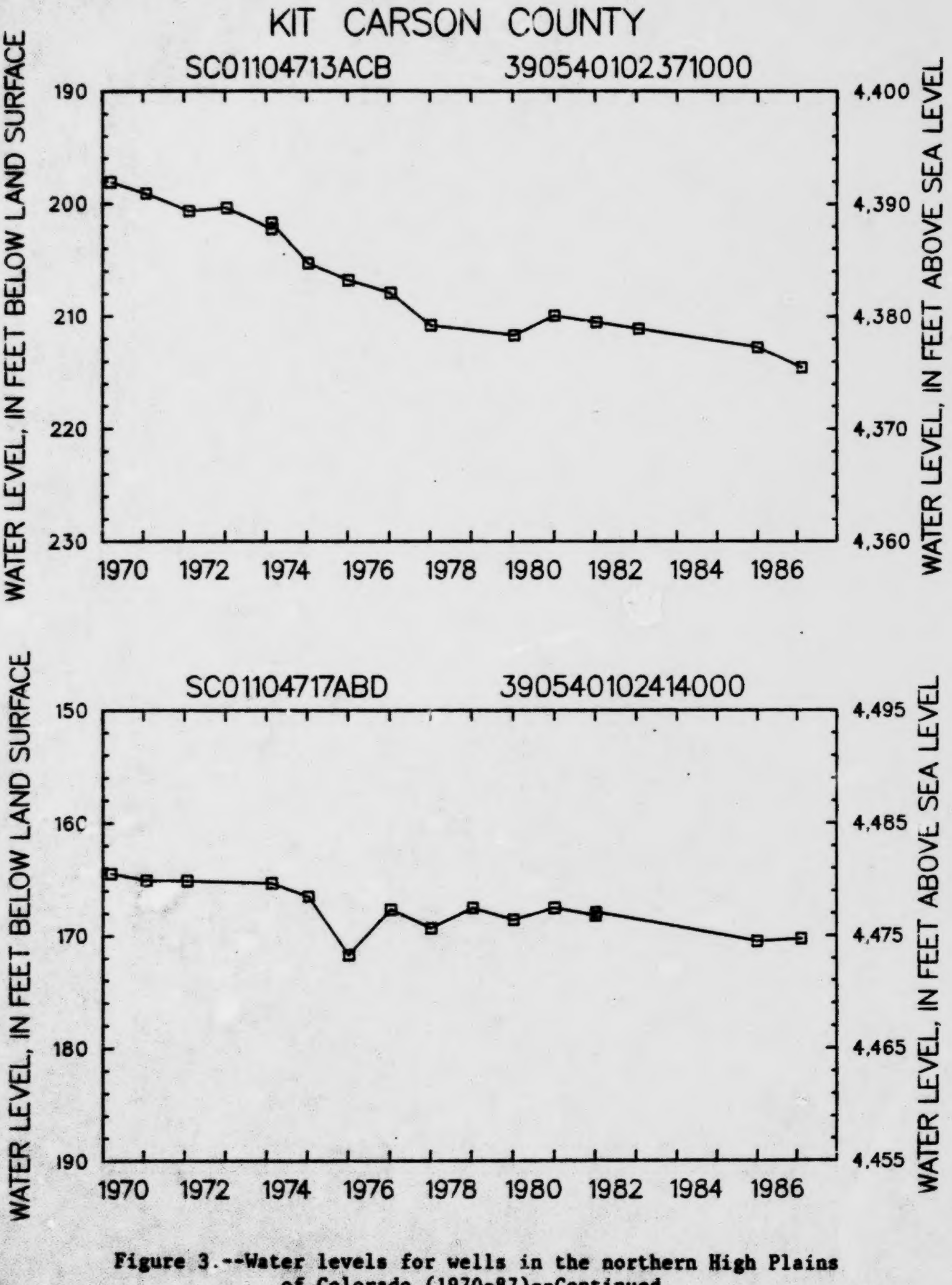

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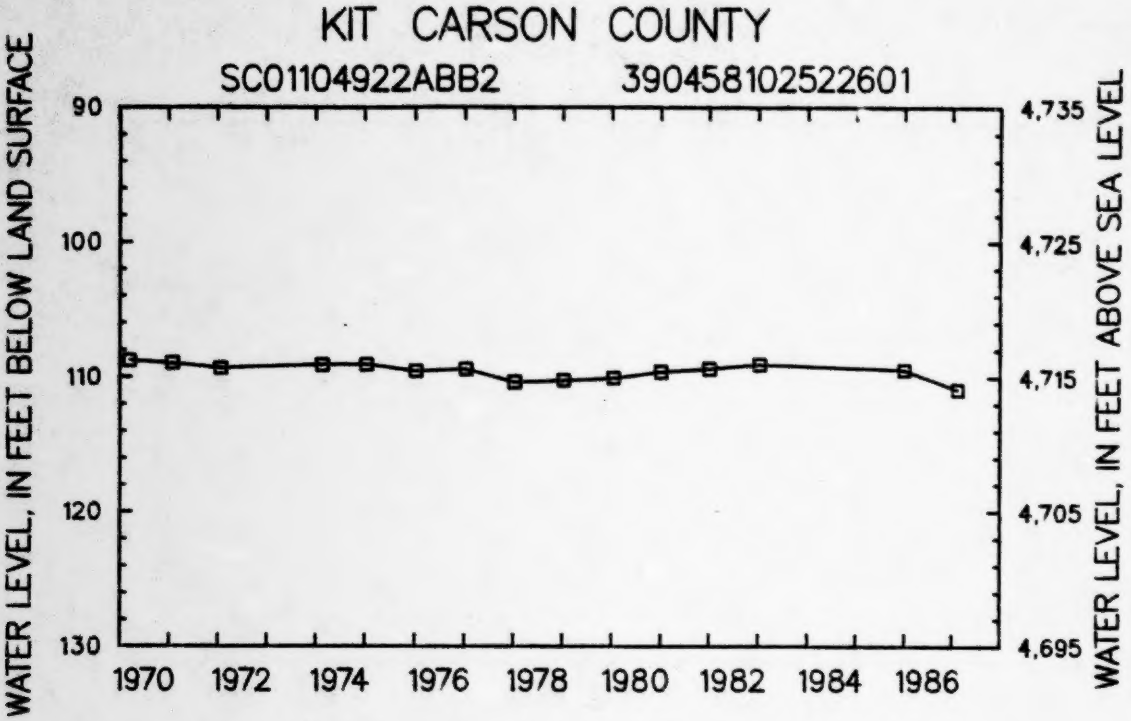

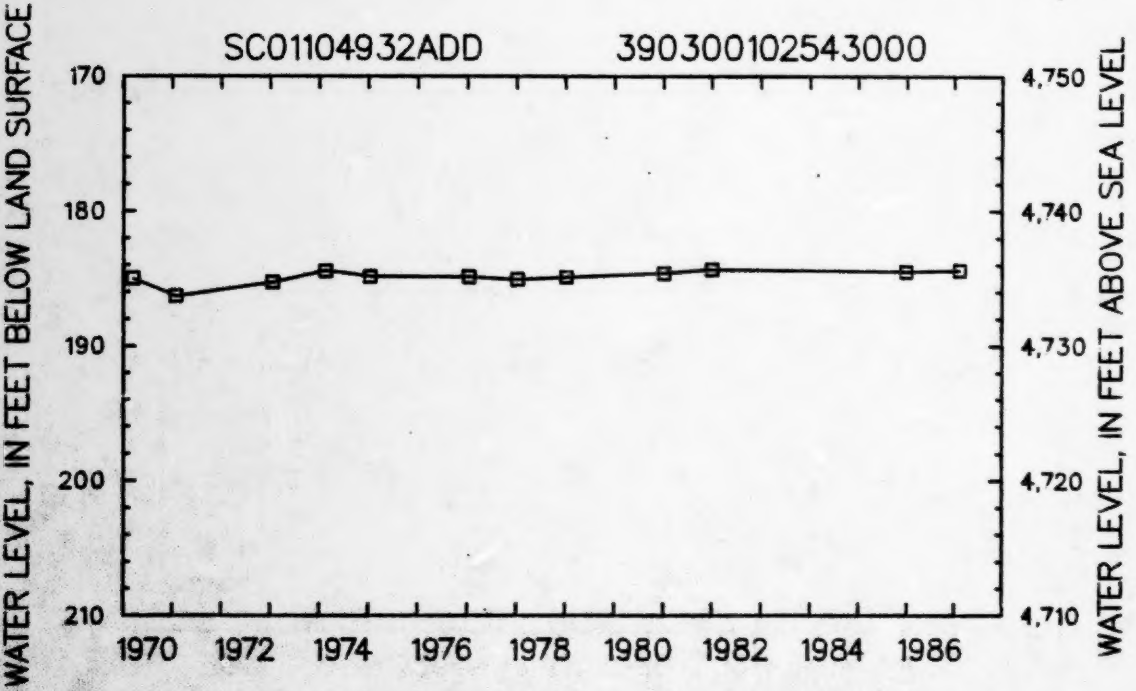

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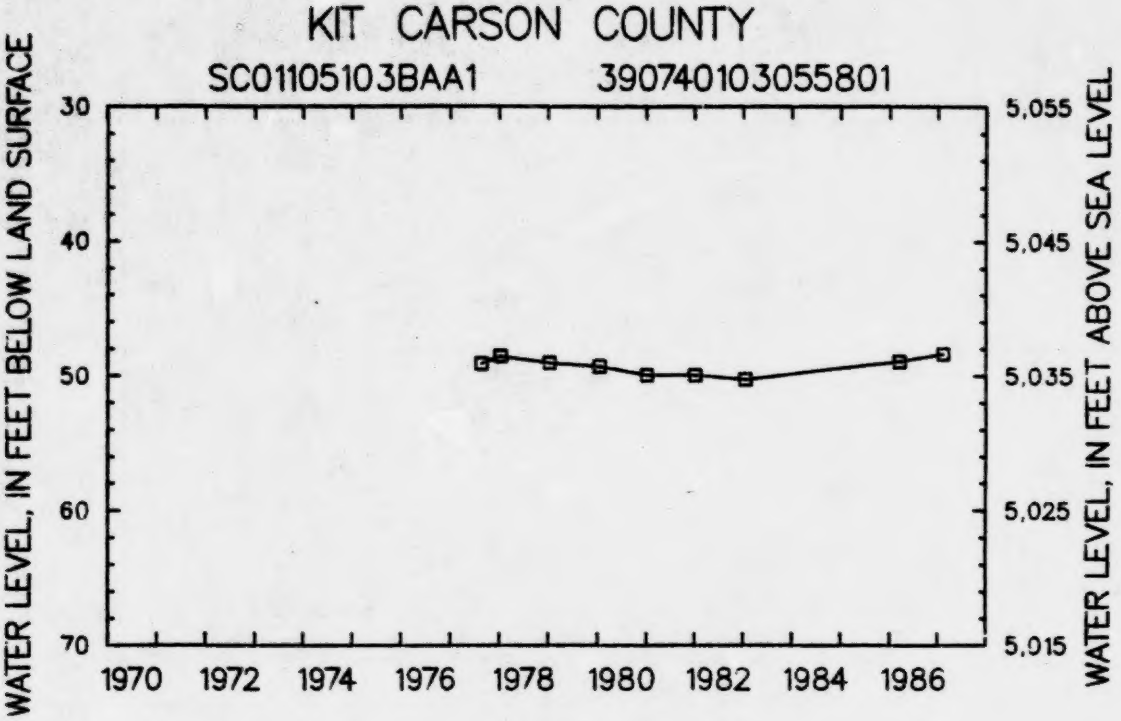

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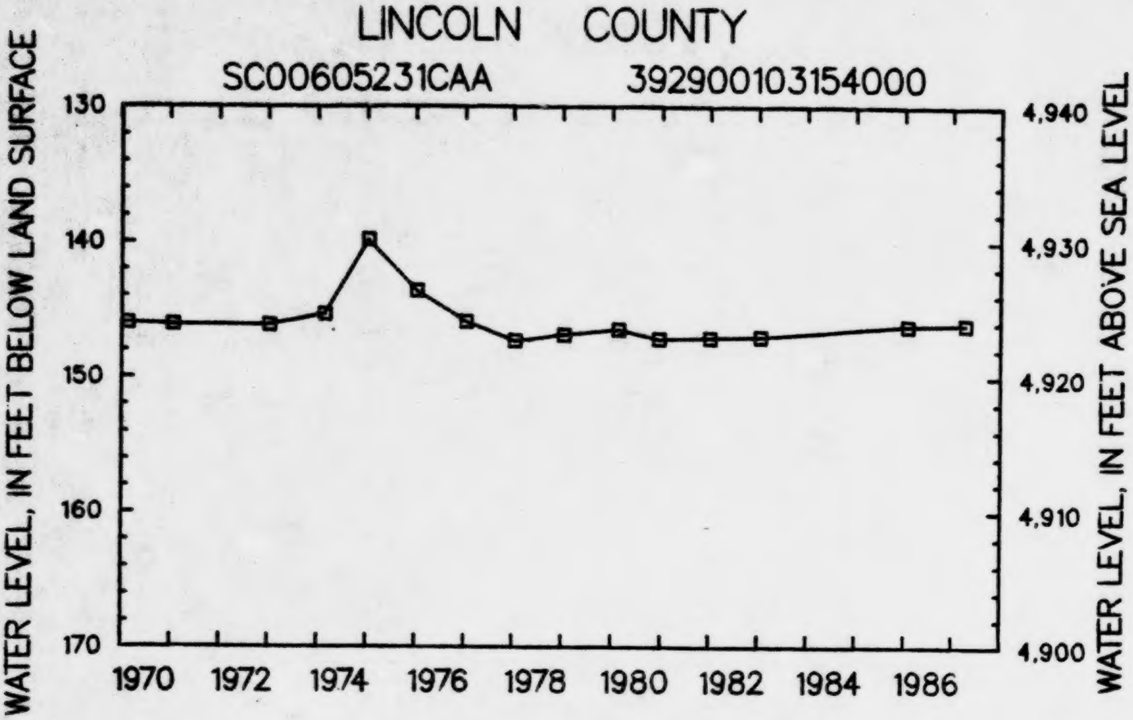

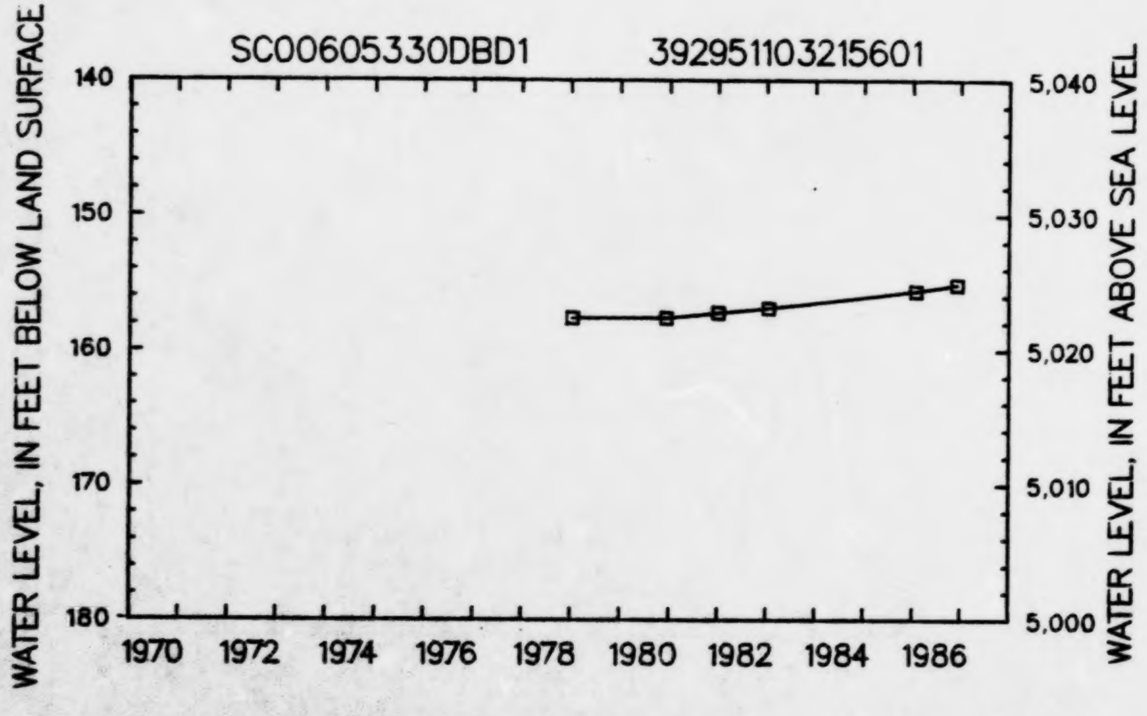

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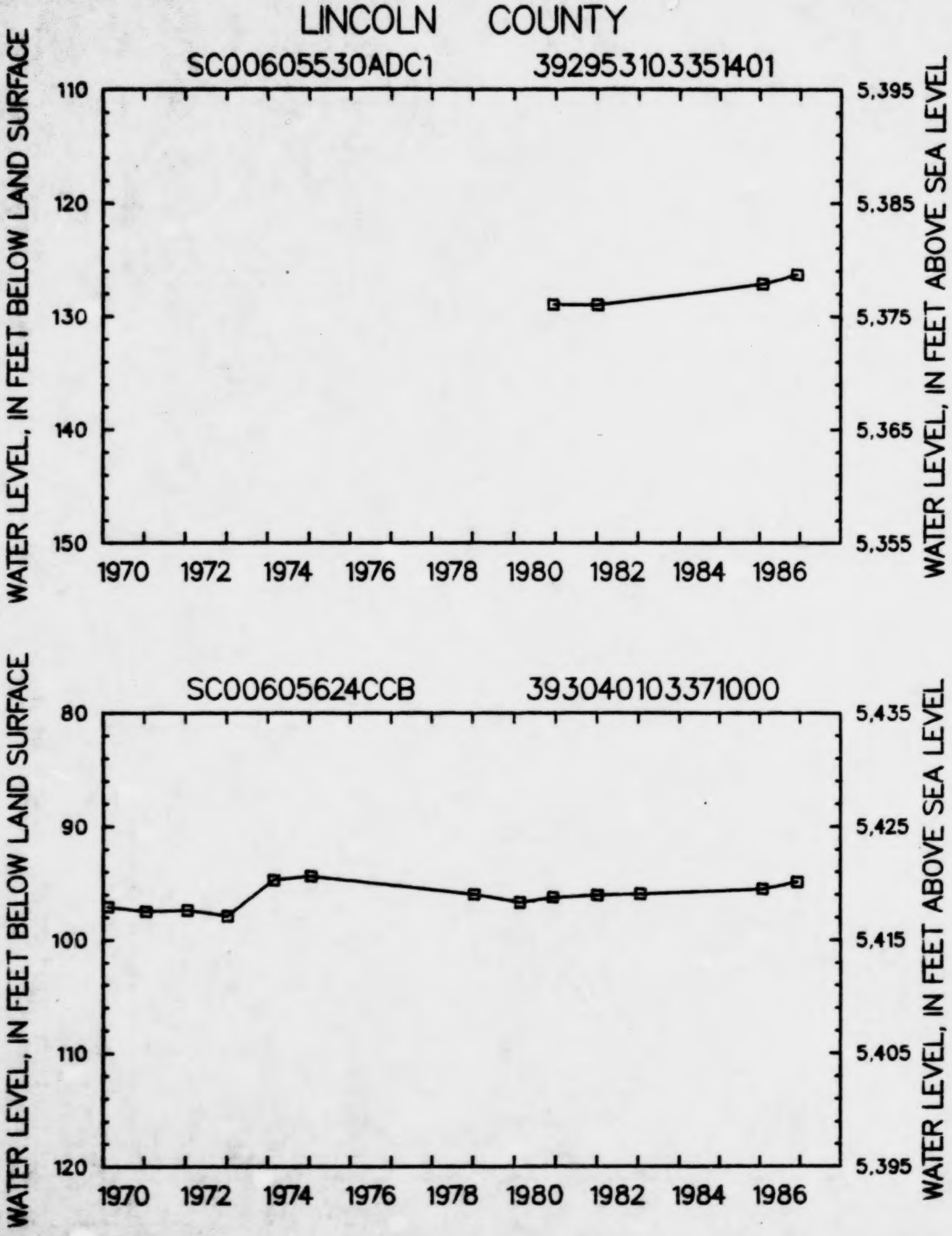

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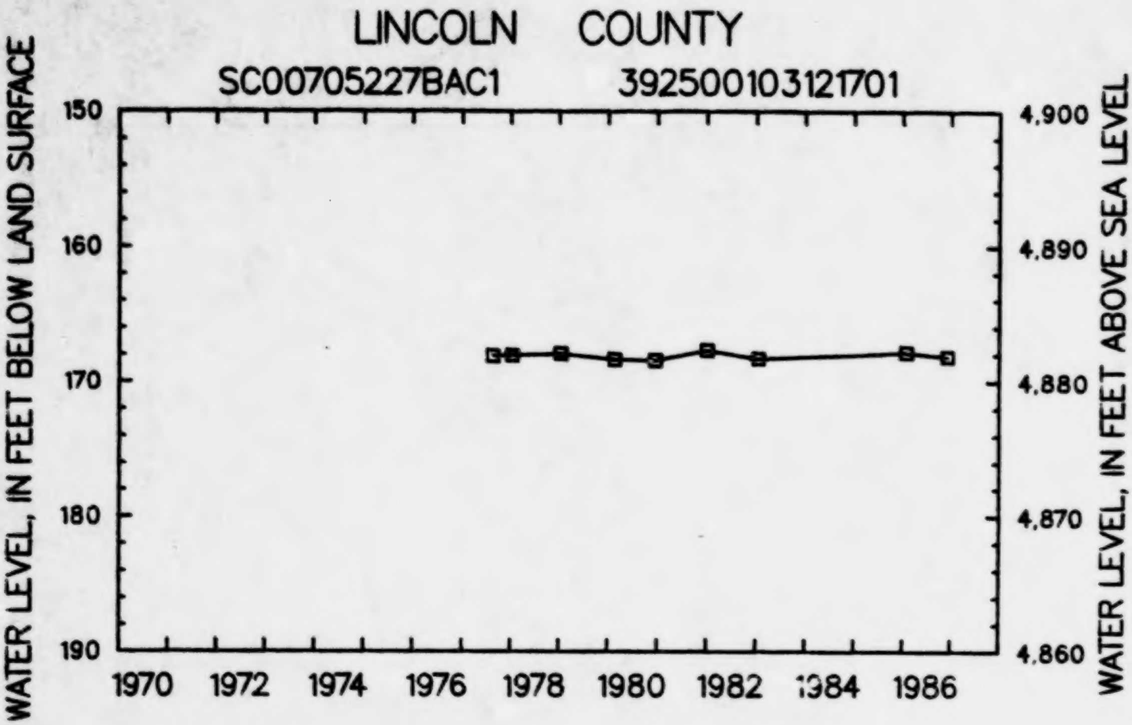


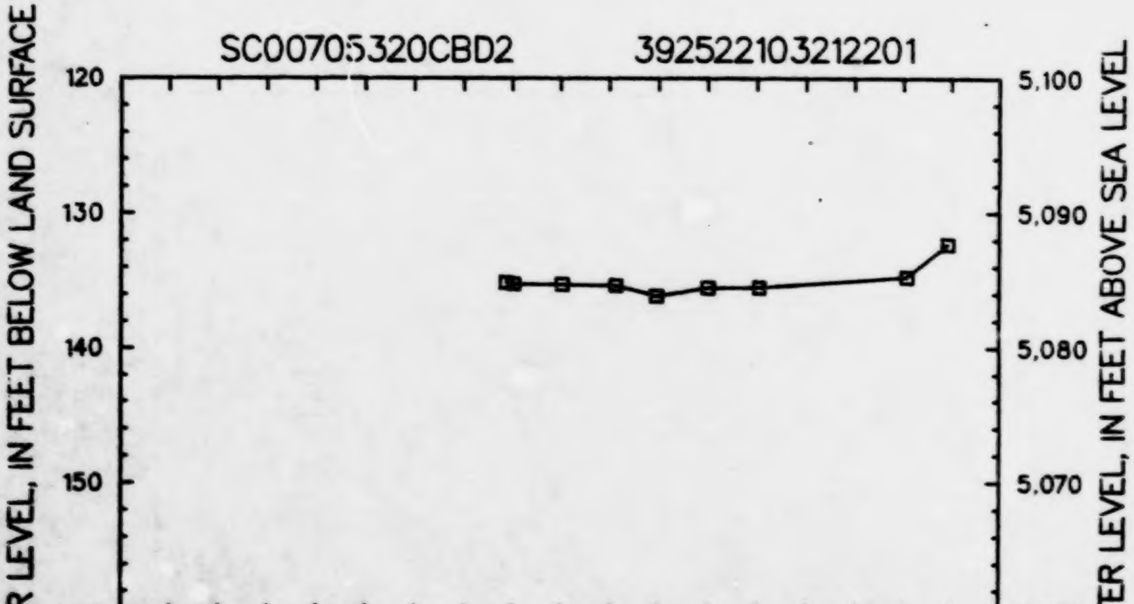


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

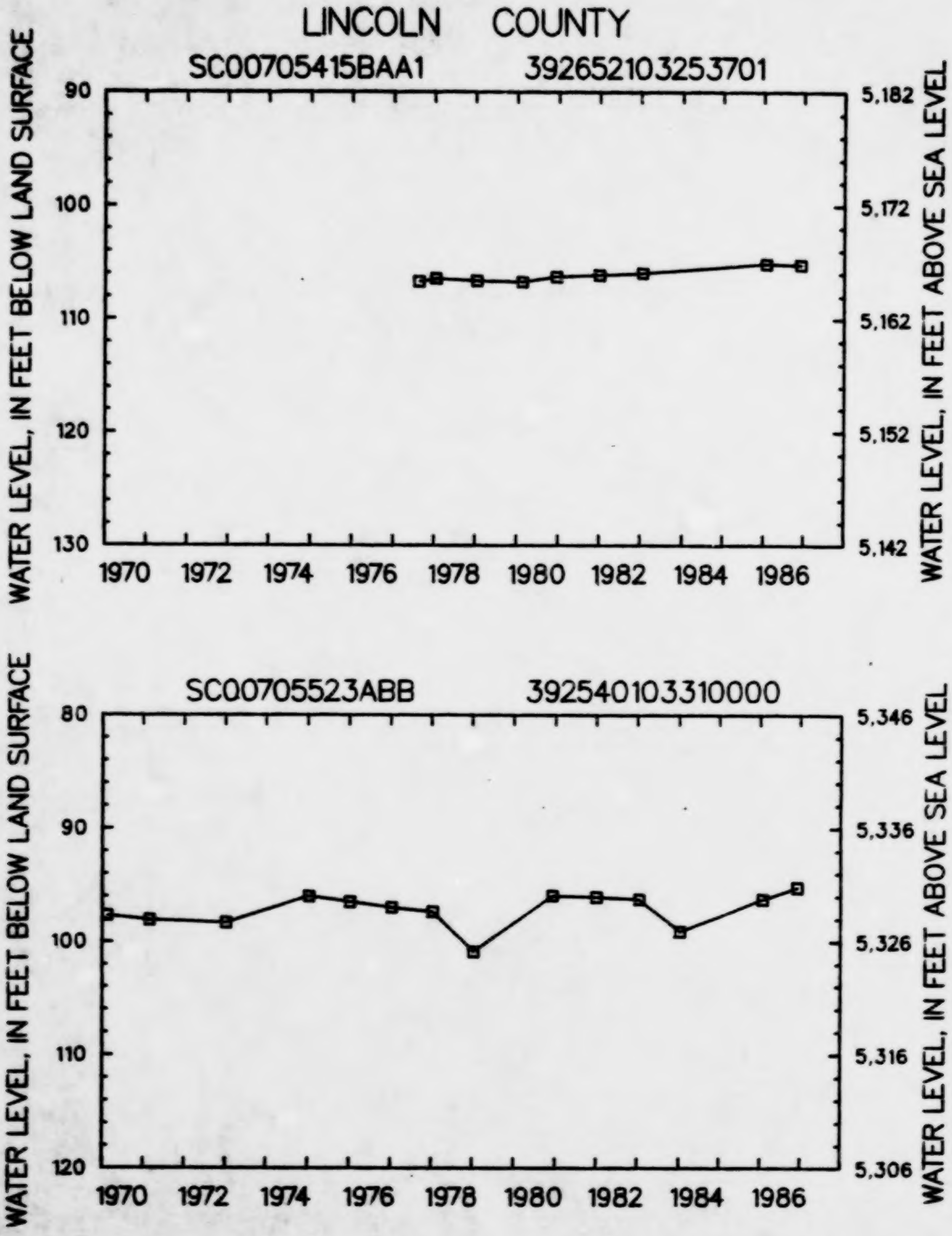


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

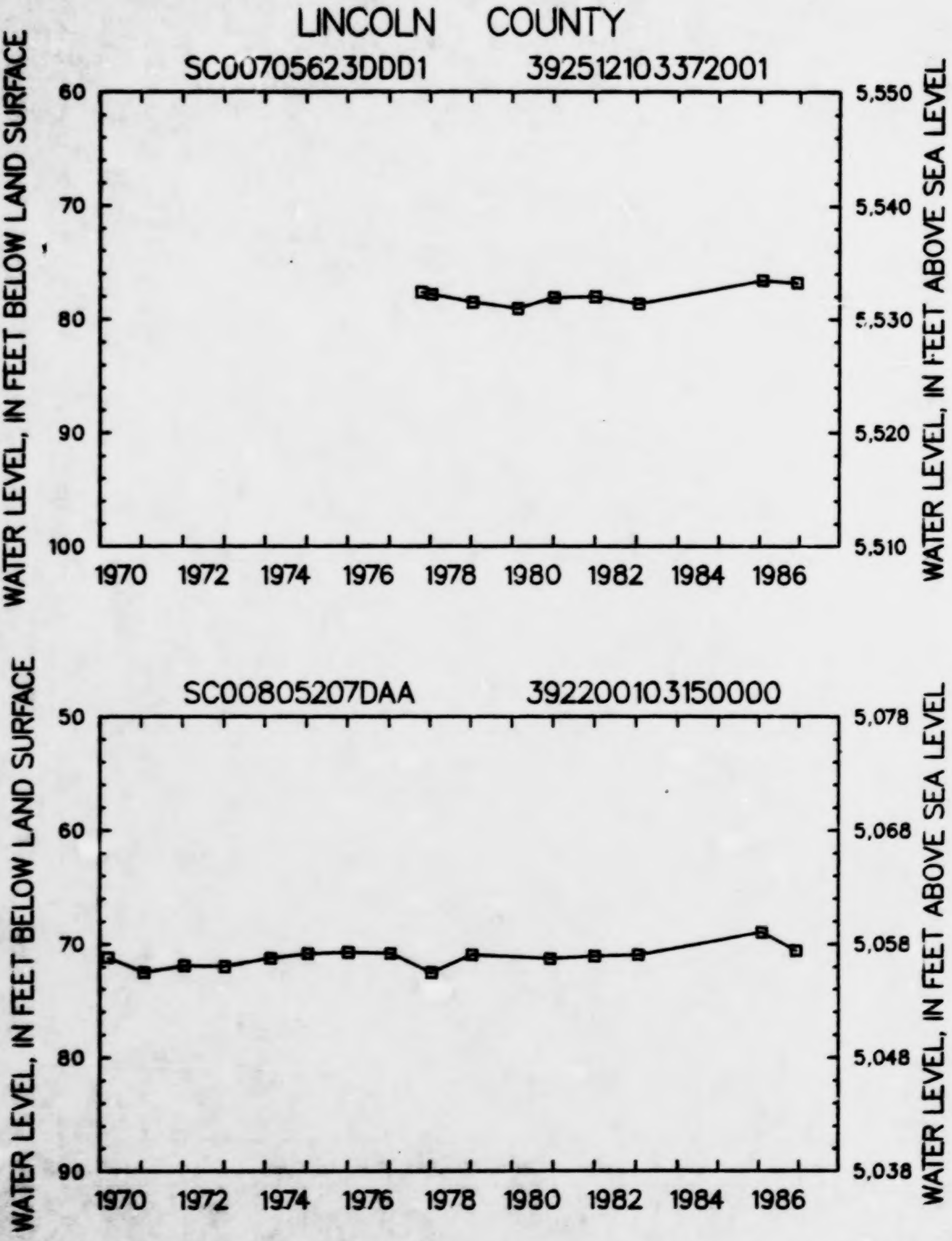
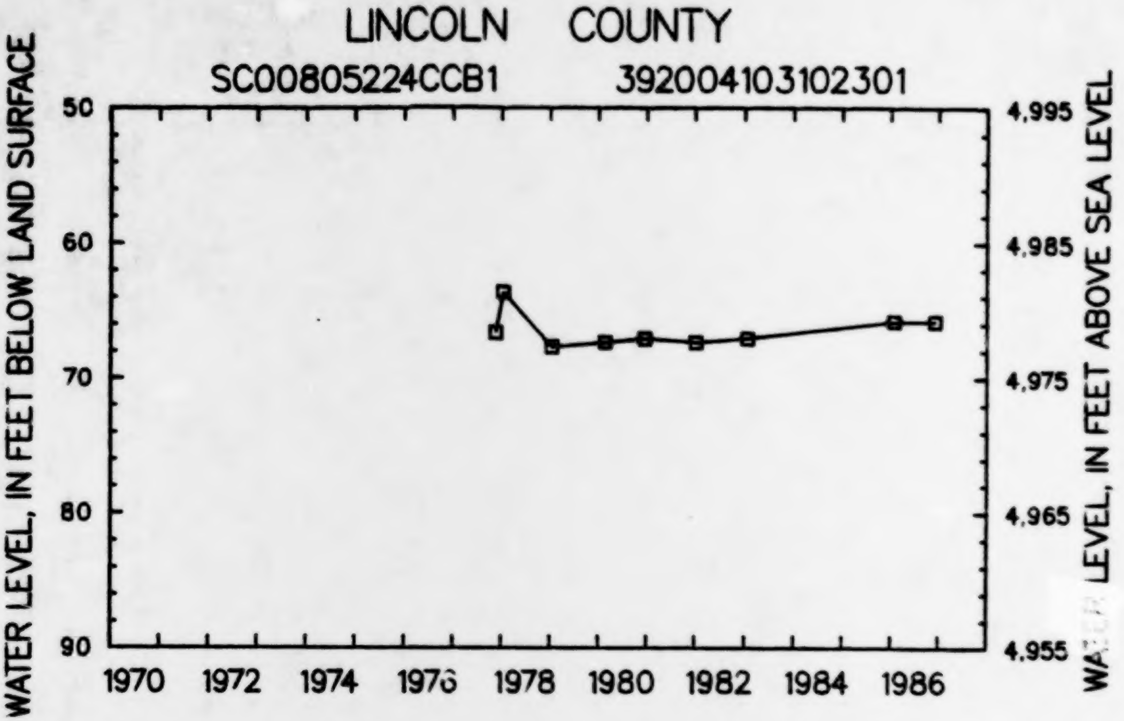


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



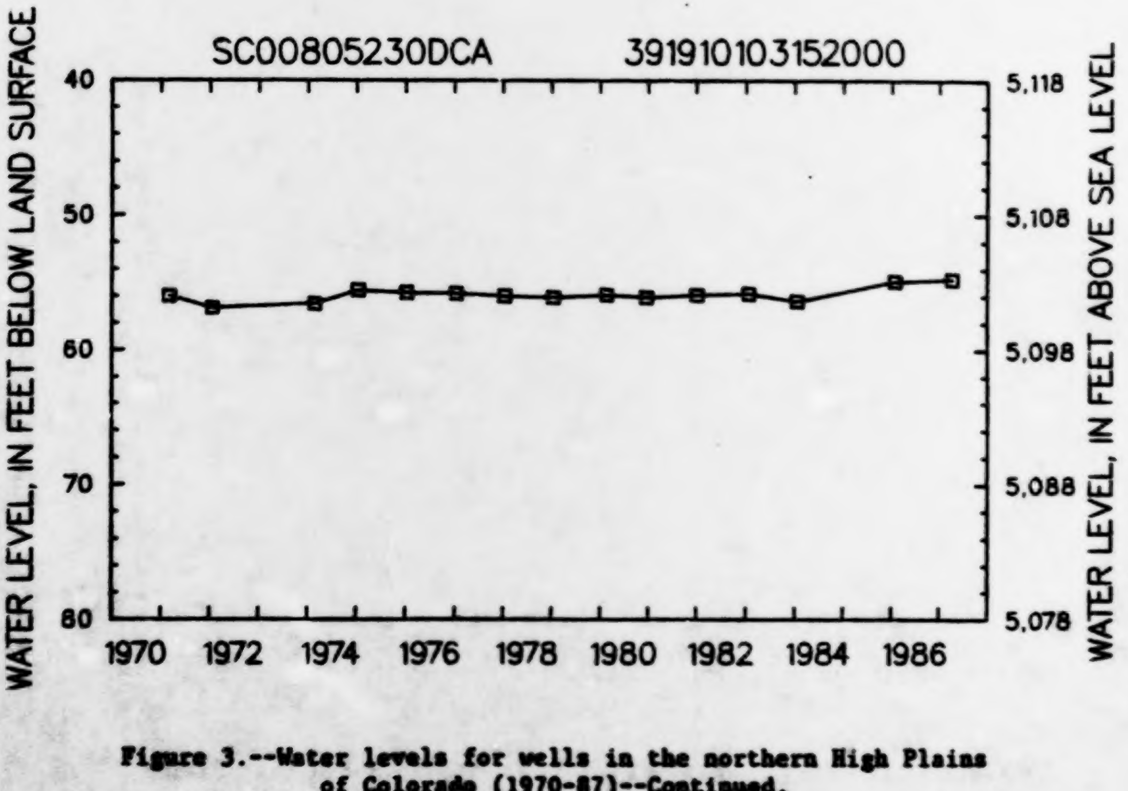
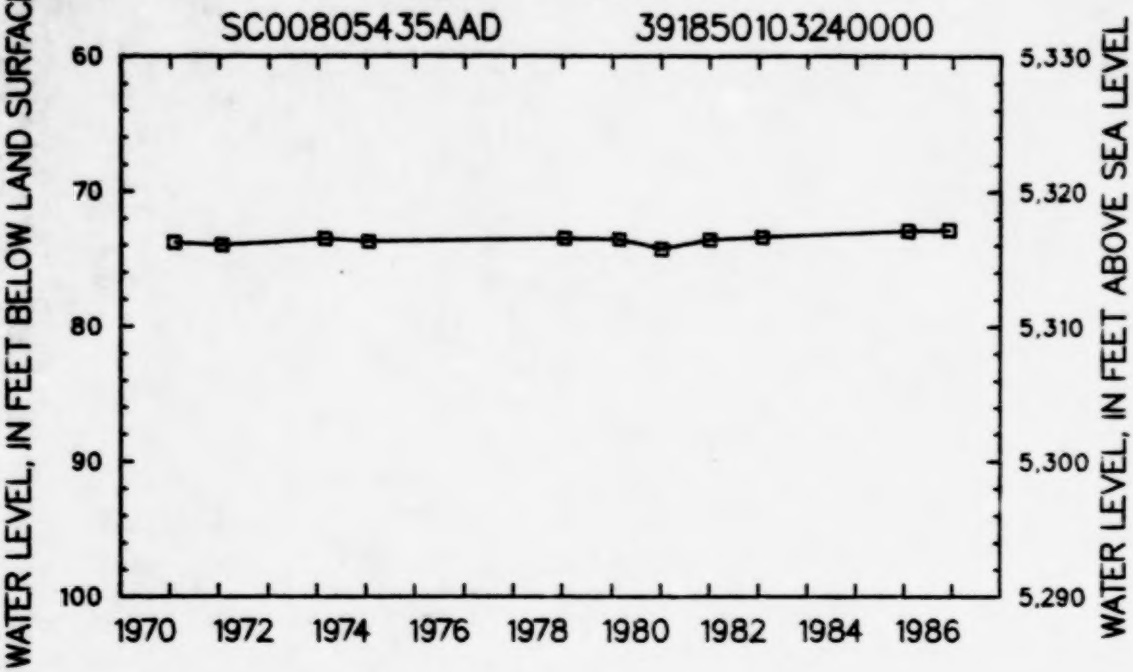


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

LINCOLN COUNTY



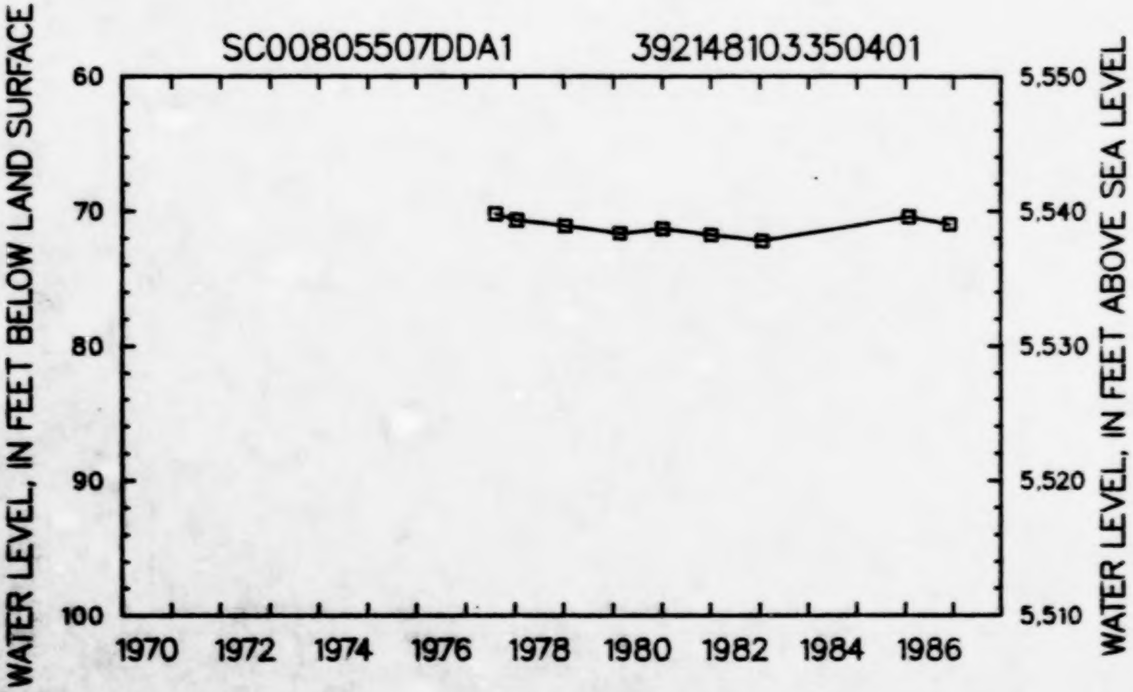


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

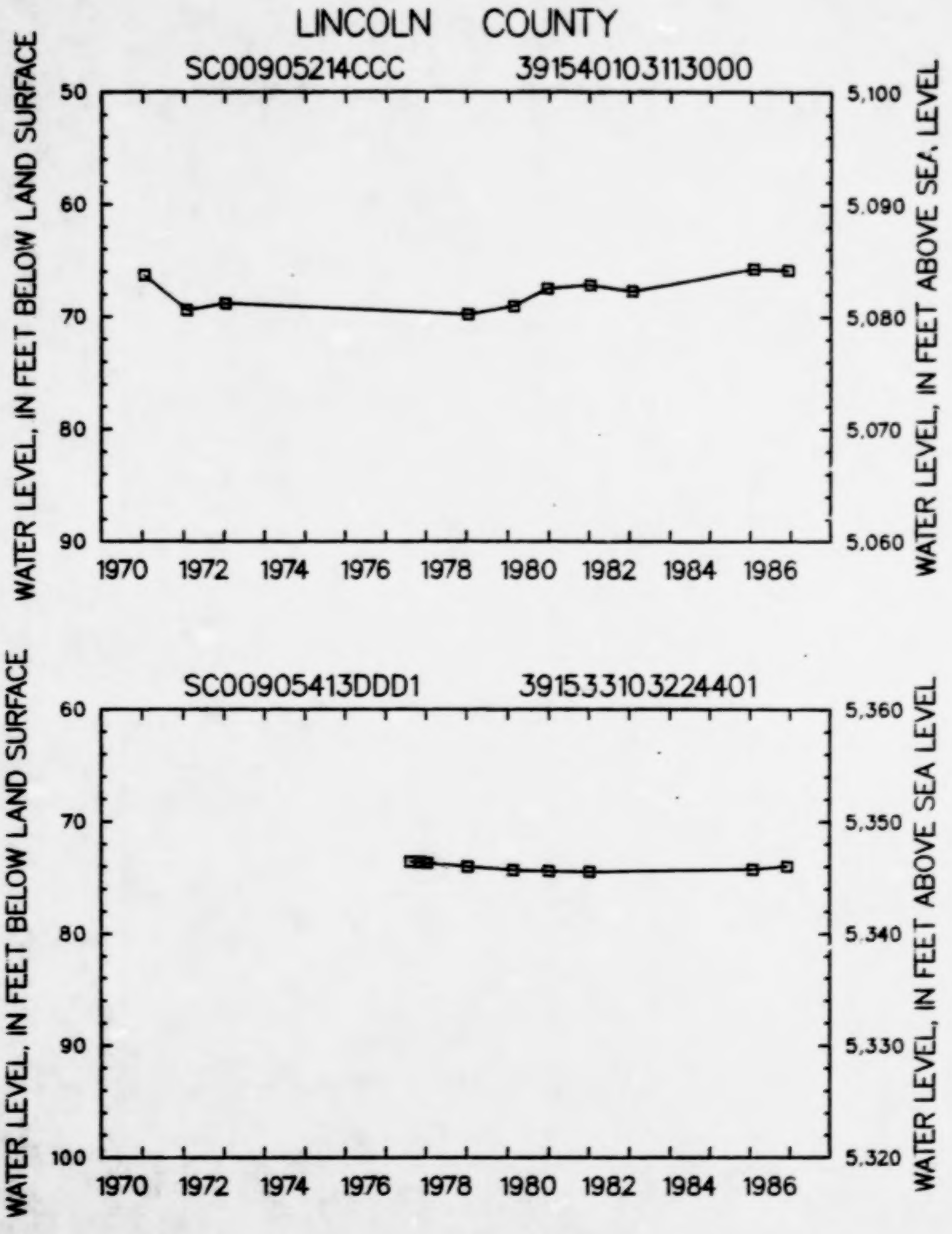


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

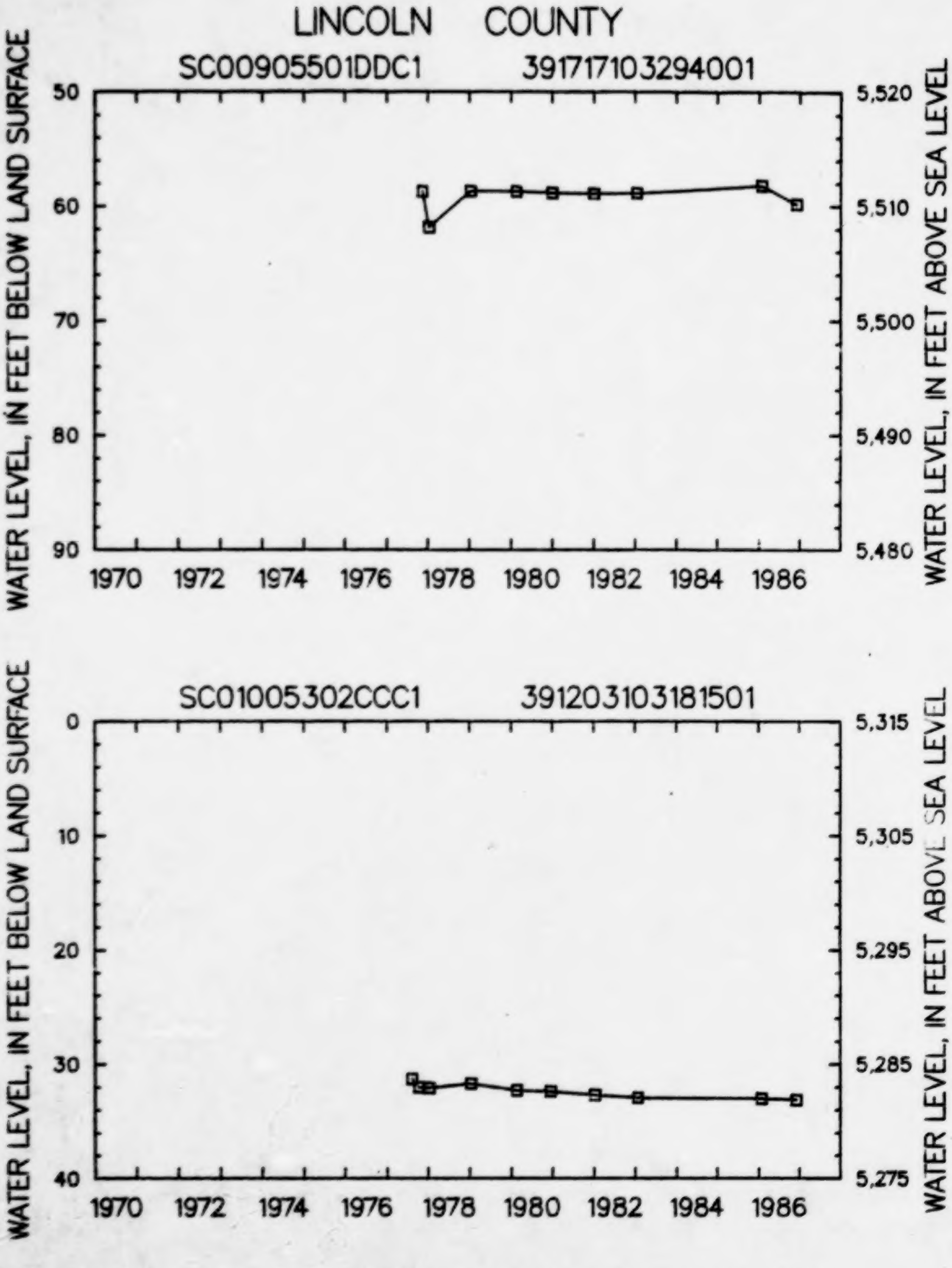
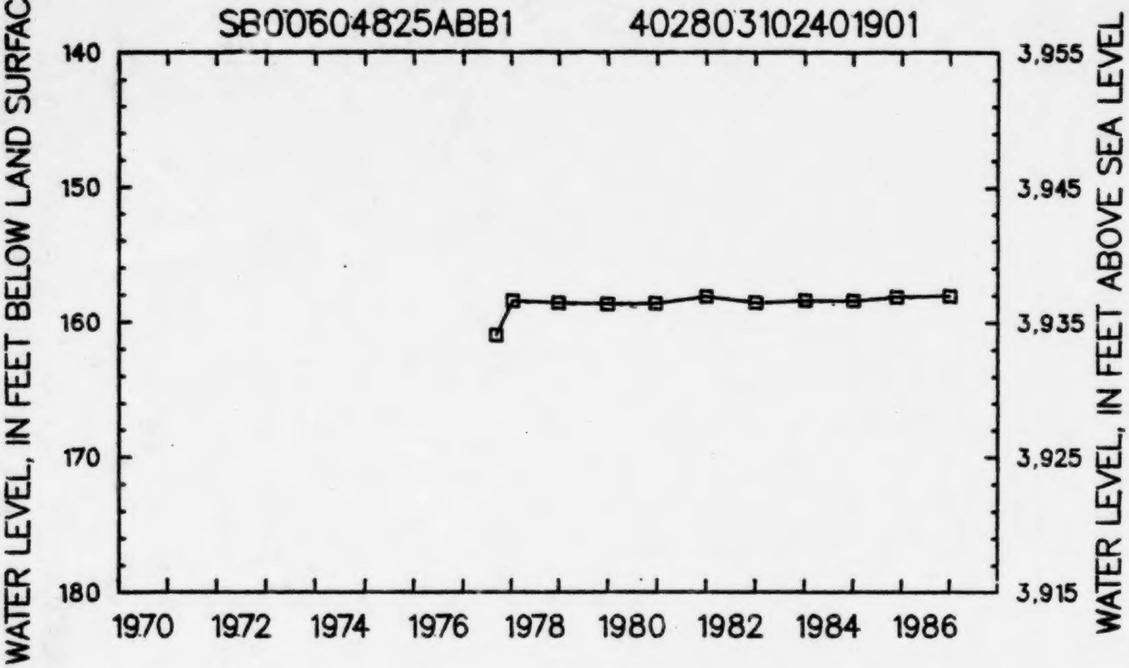


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

LOGAN COUNTY



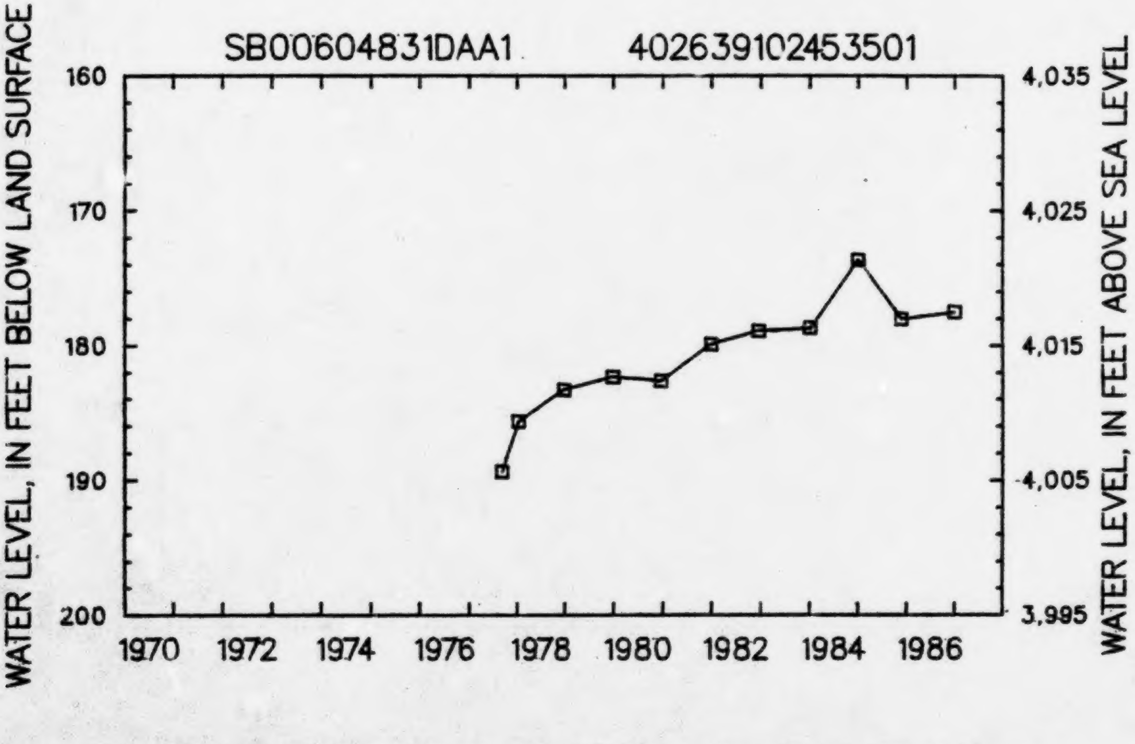


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

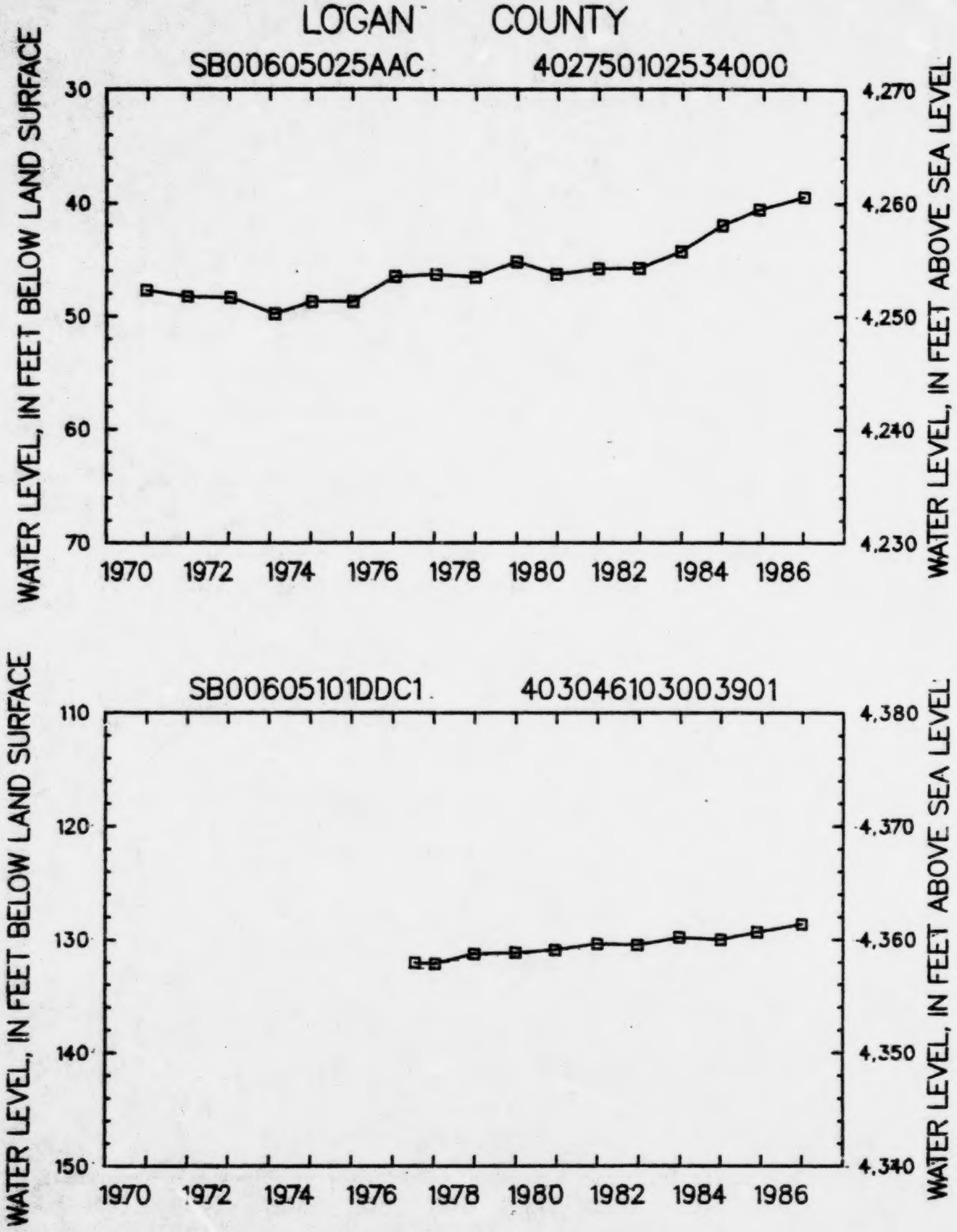


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

LOGAN COUNTY

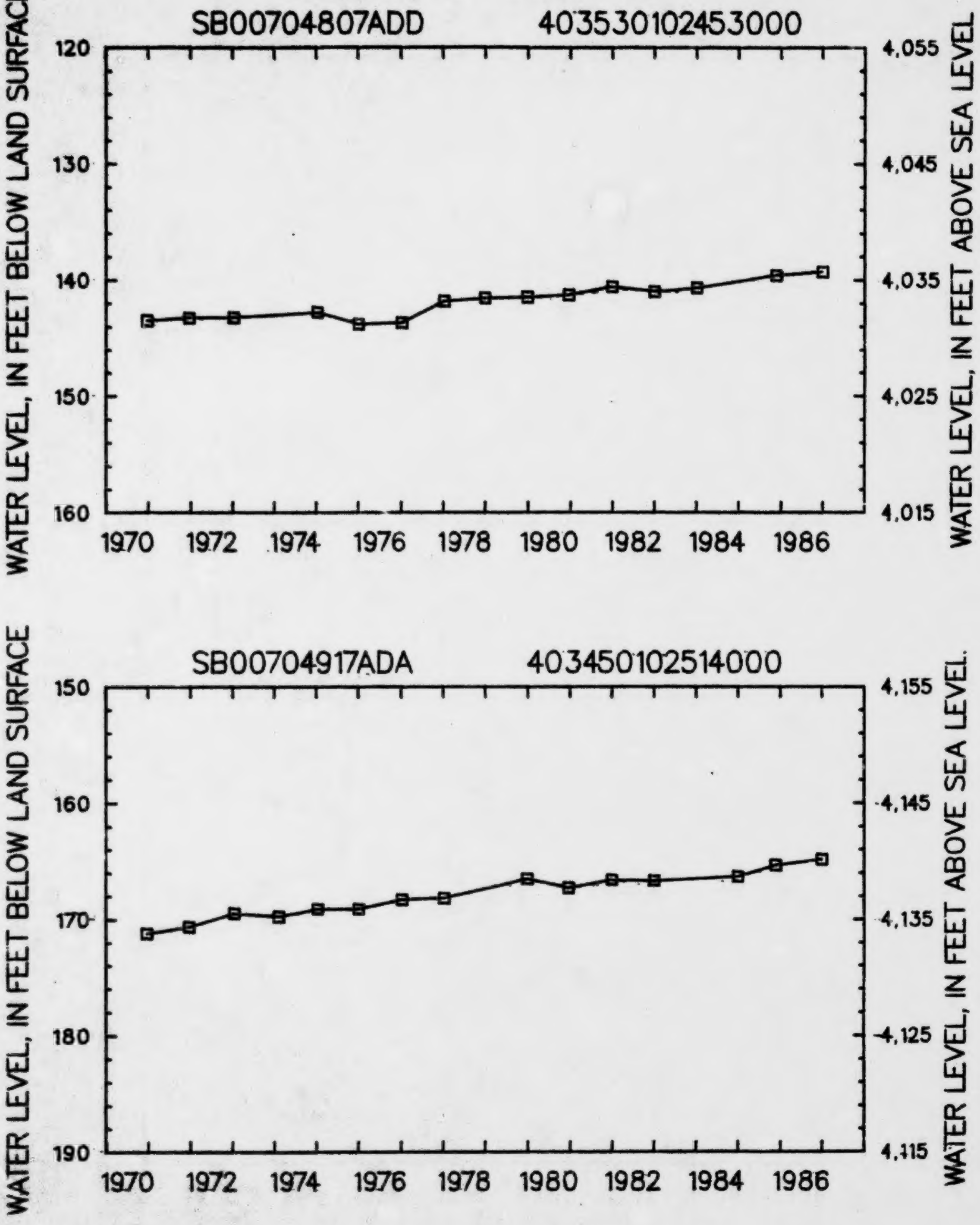


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

LOGAN COUNTY

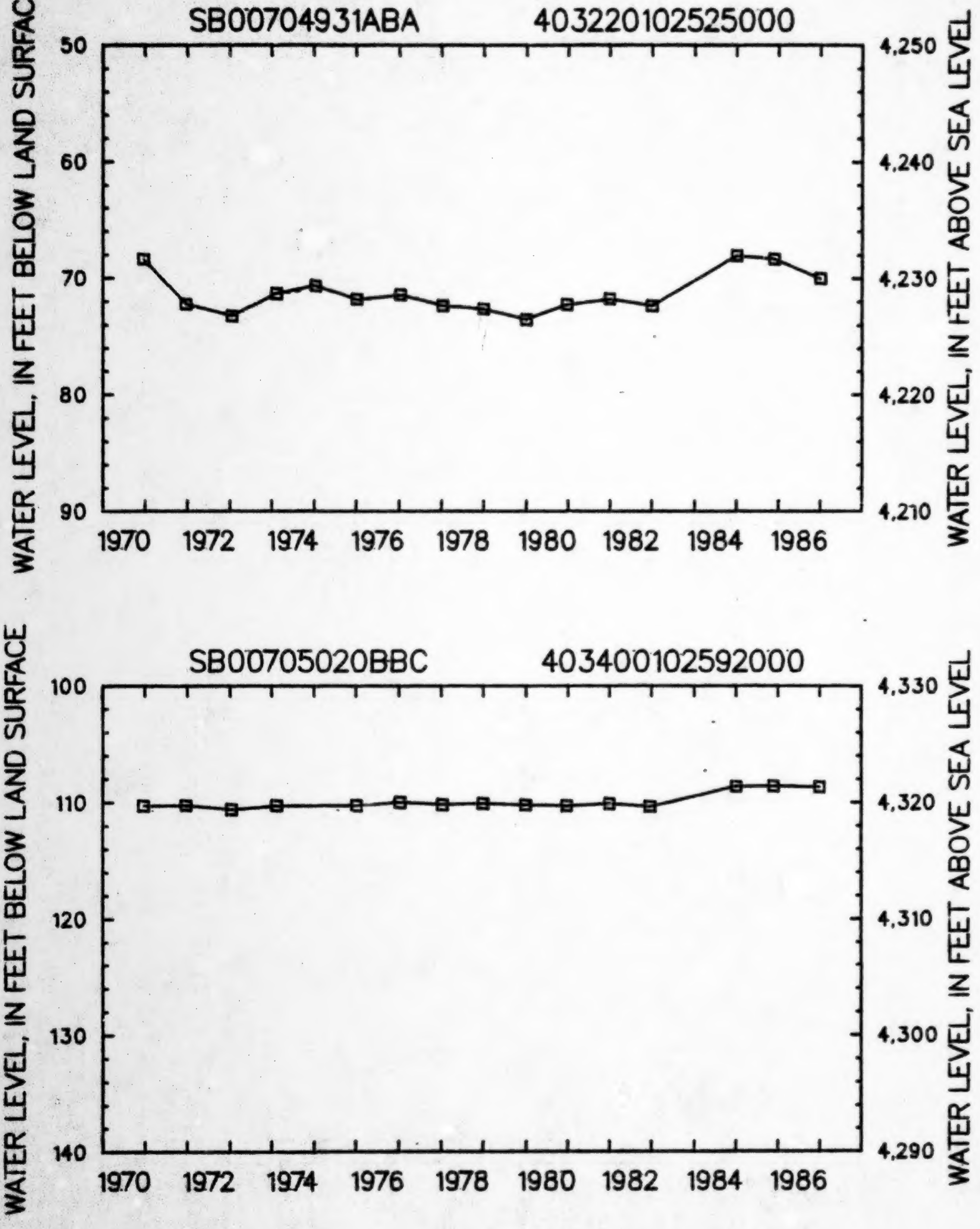
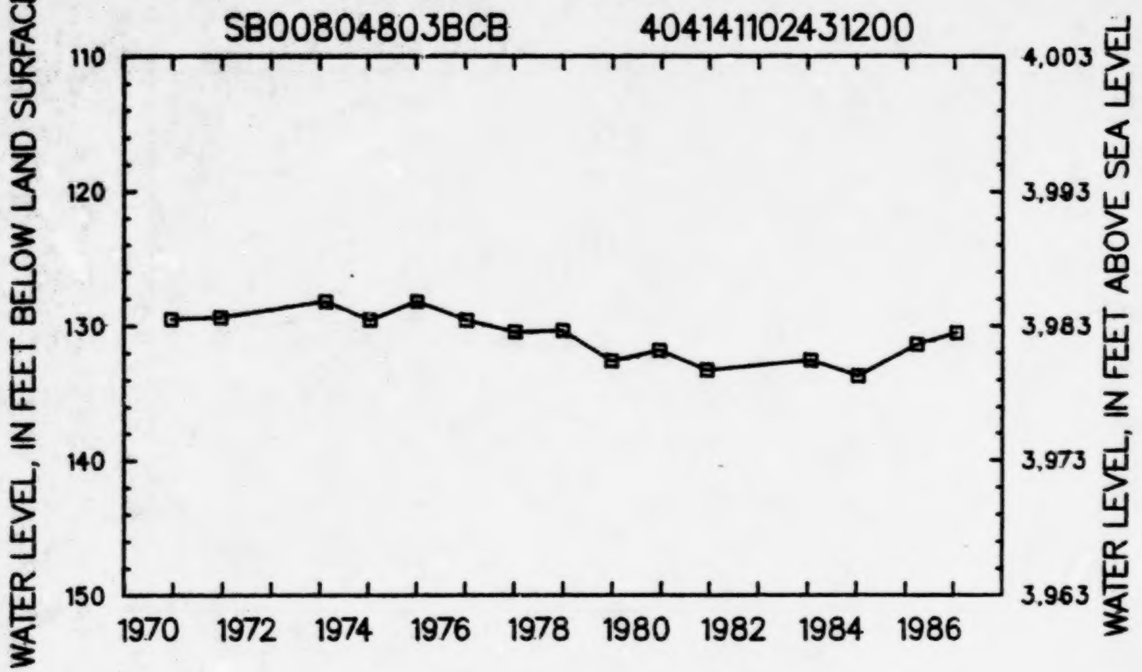


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

LOGAN COUNTY



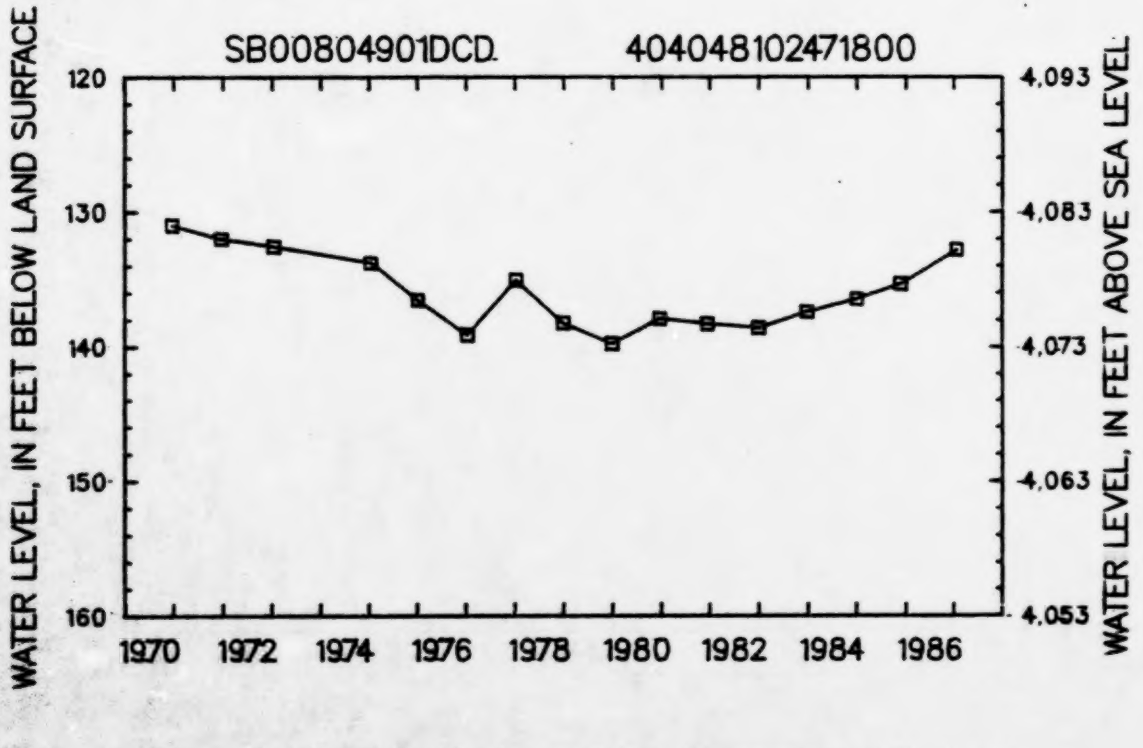
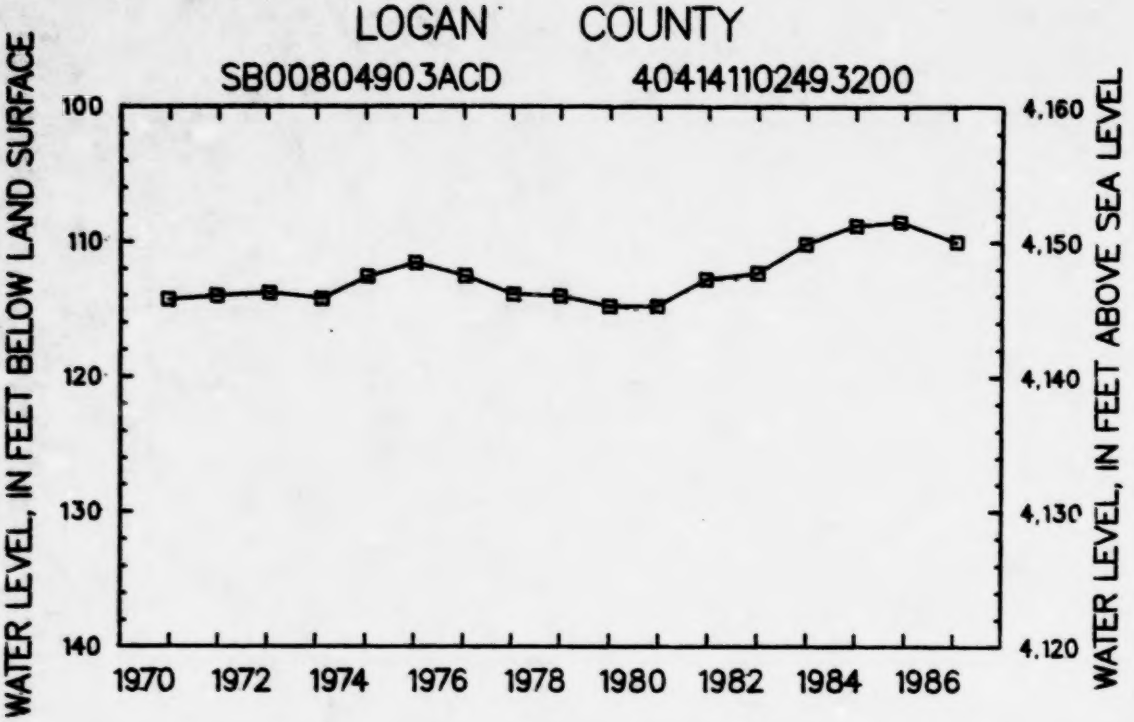


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



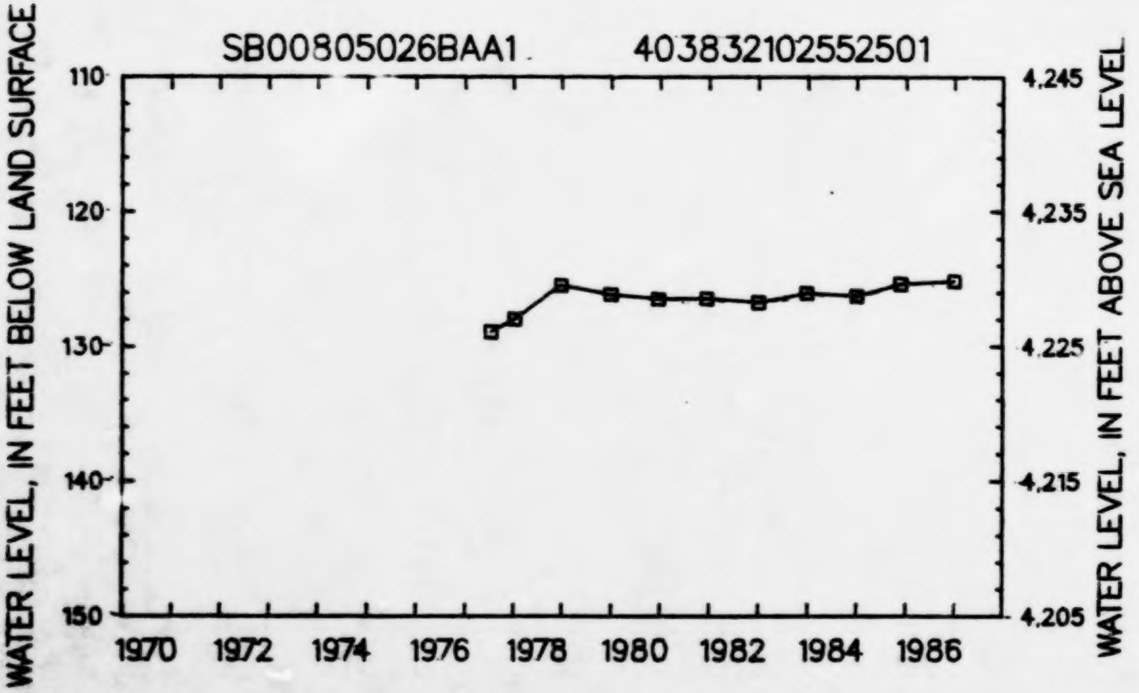


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

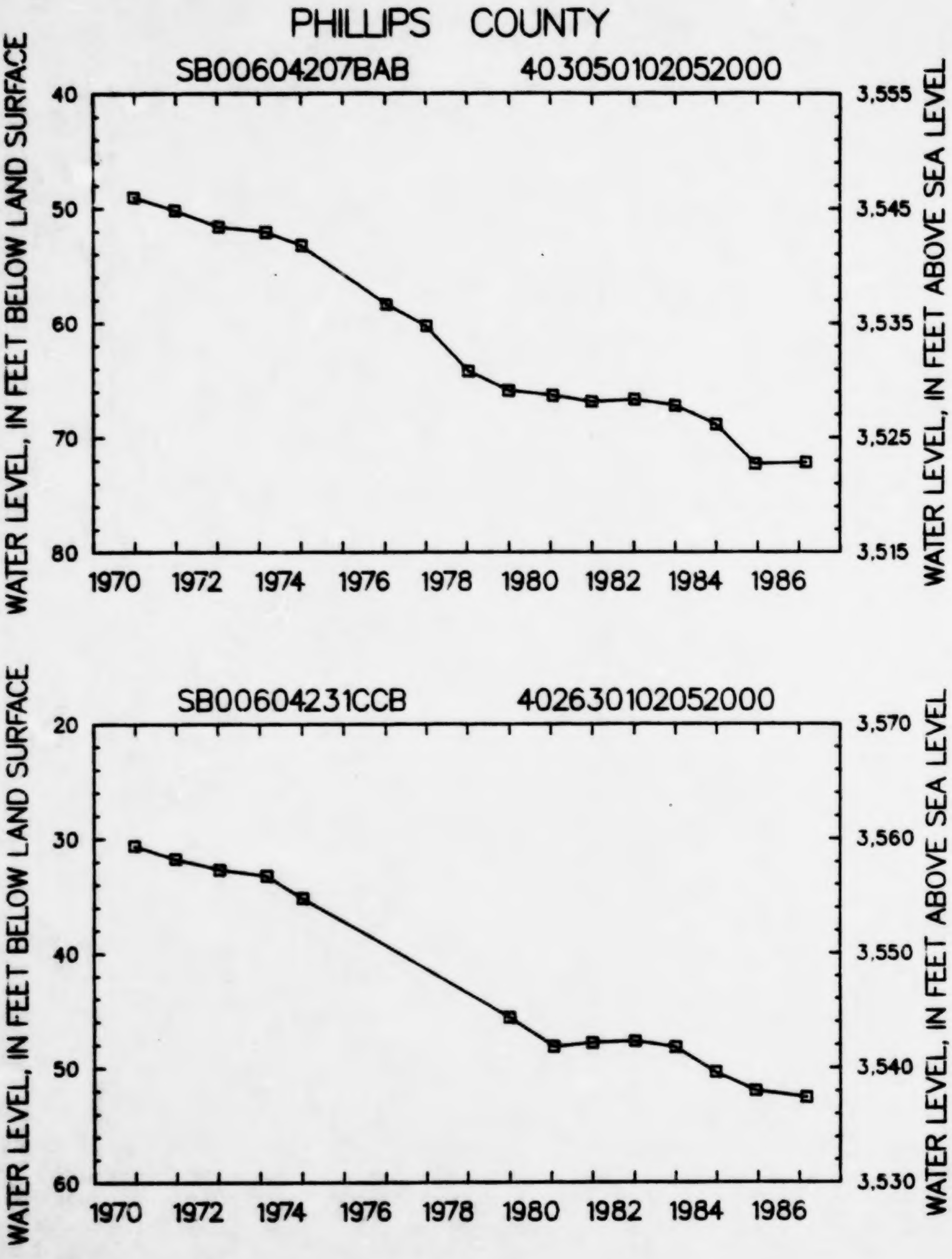


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

PHILLIPS COUNTY

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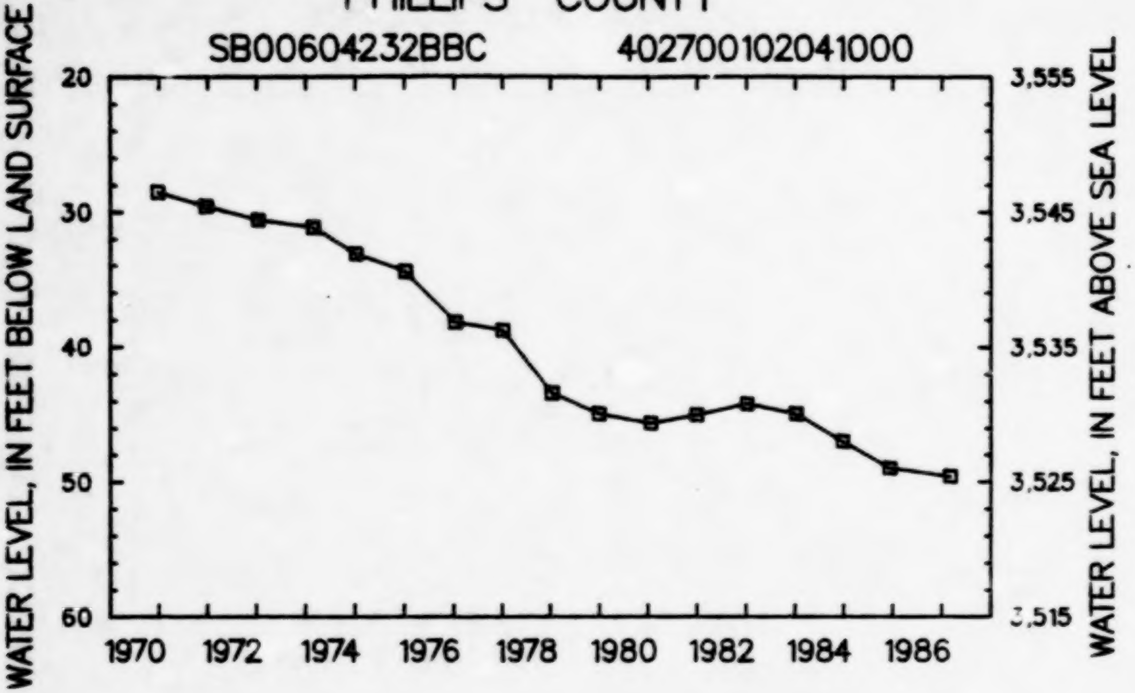

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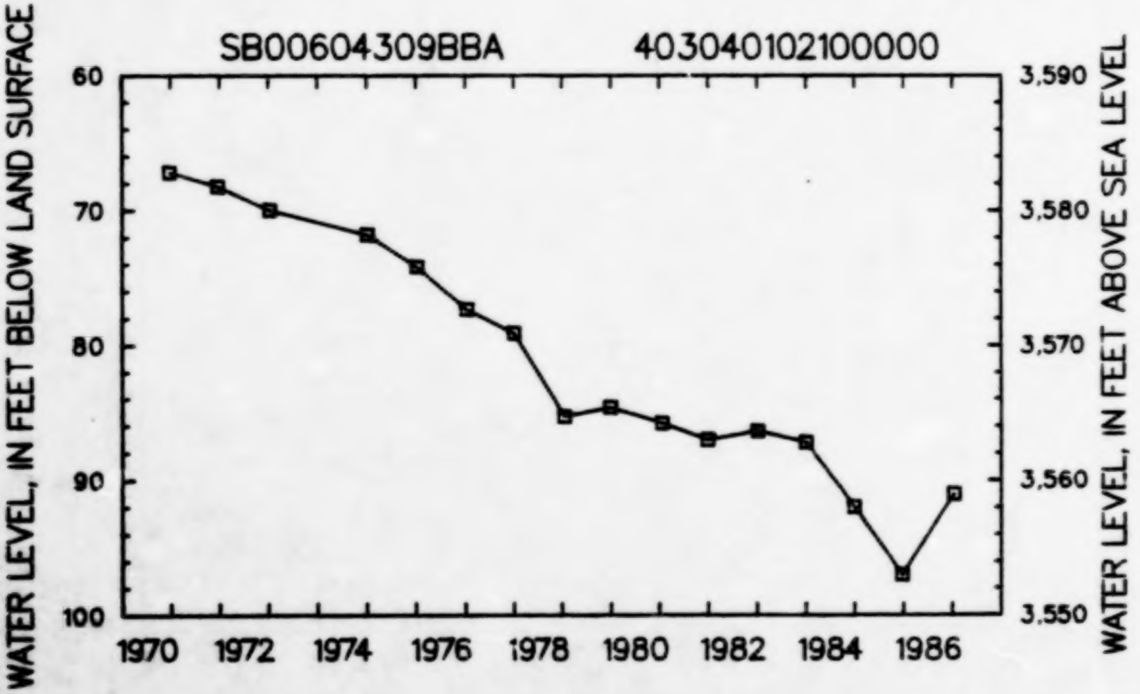


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

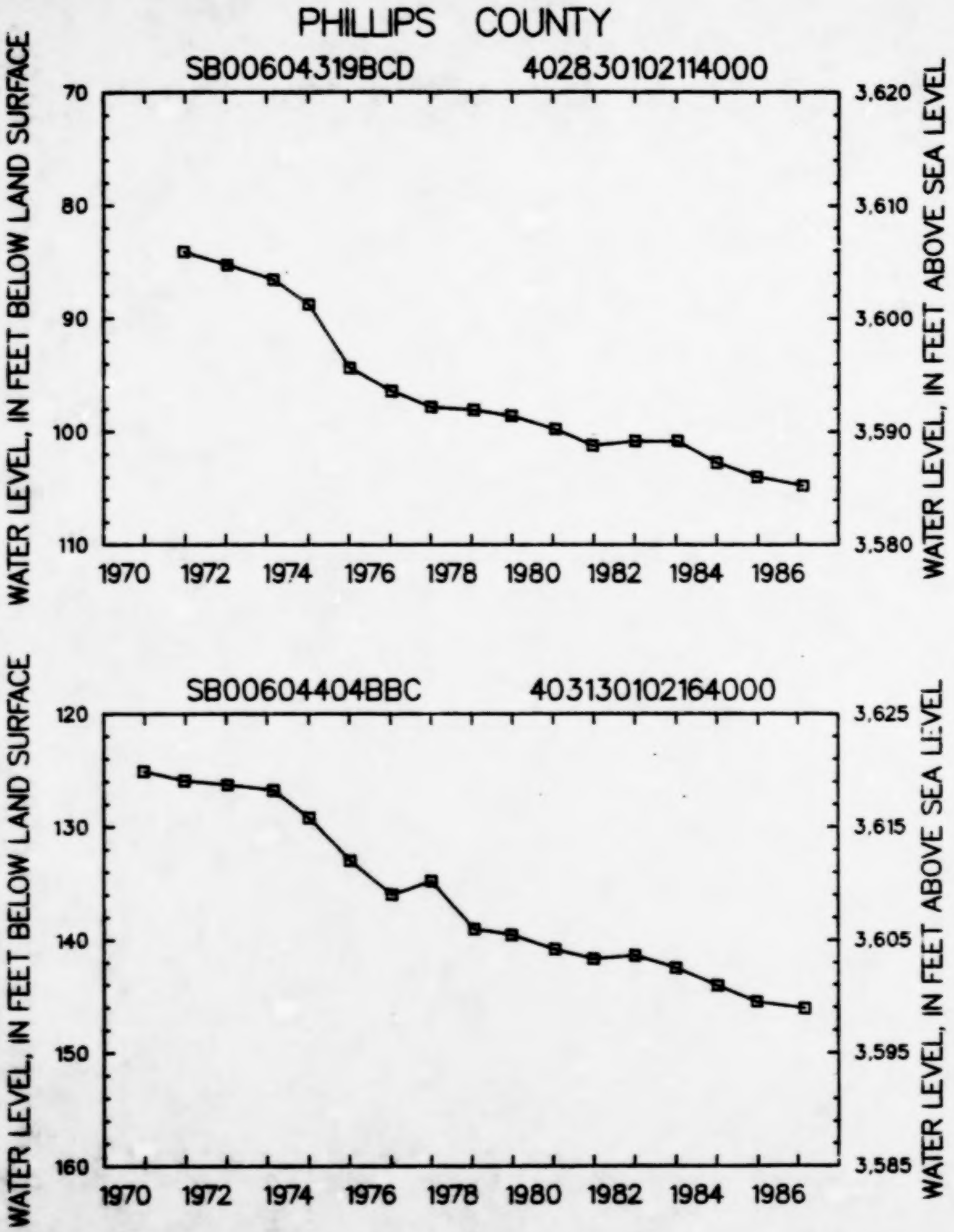


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

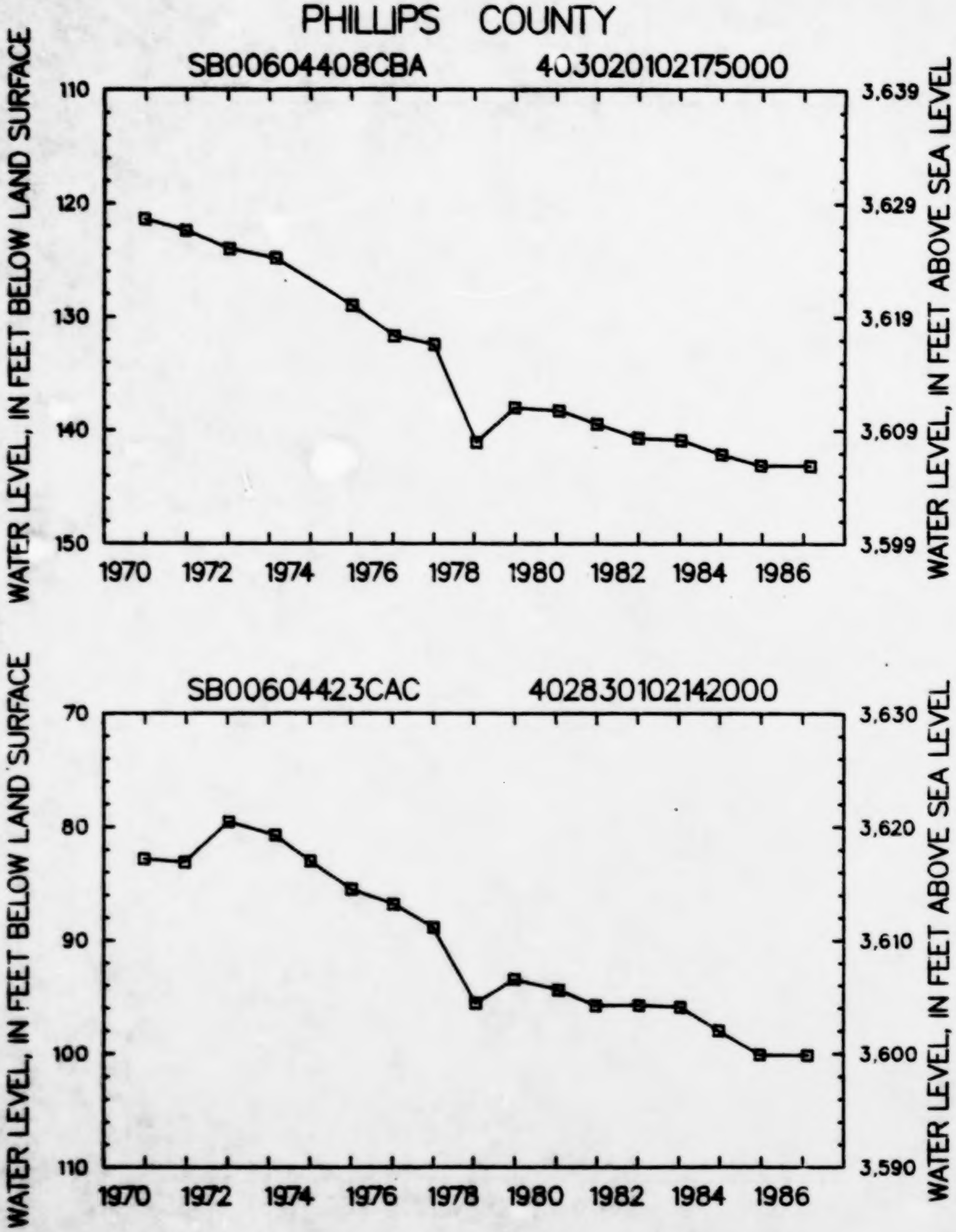


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

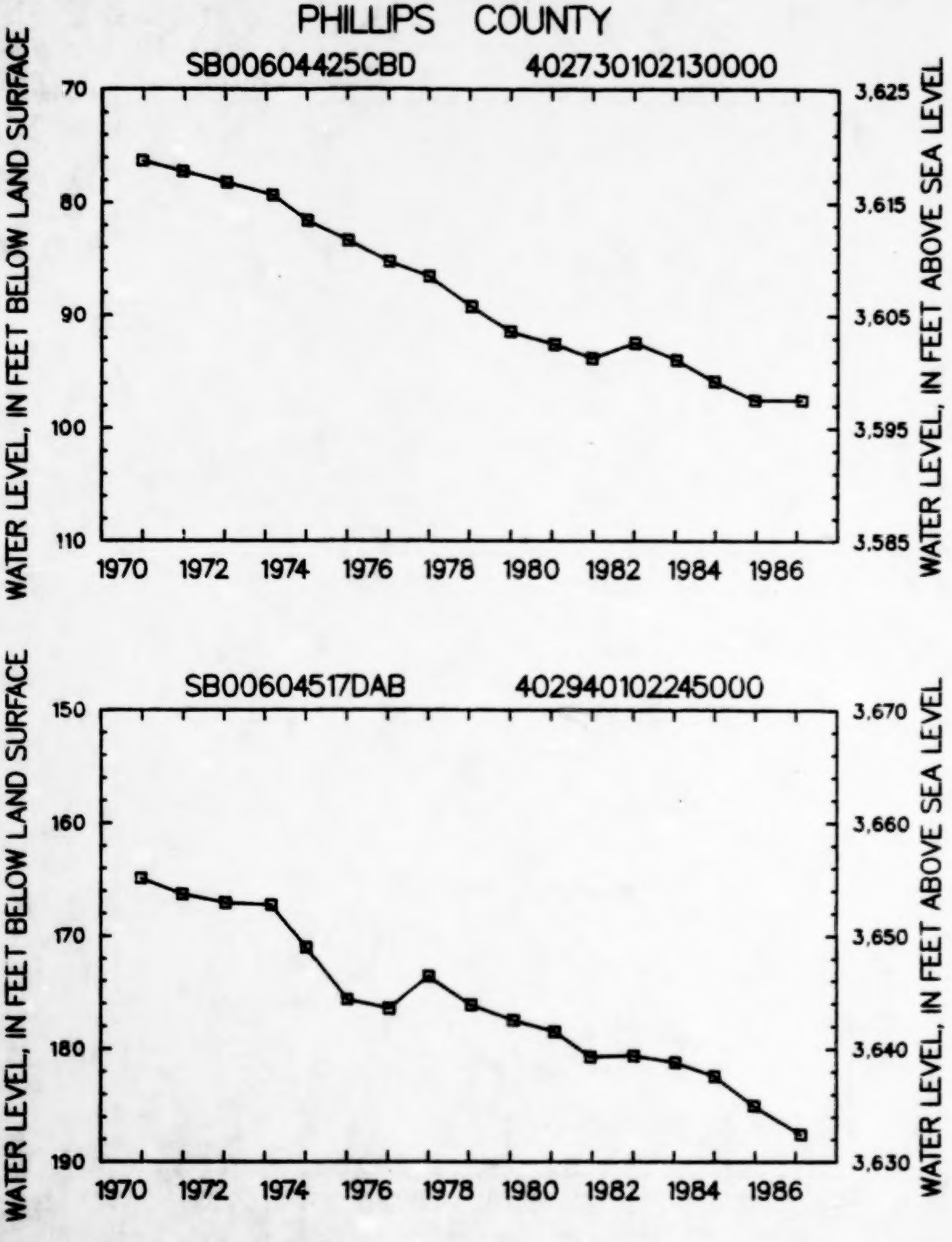


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

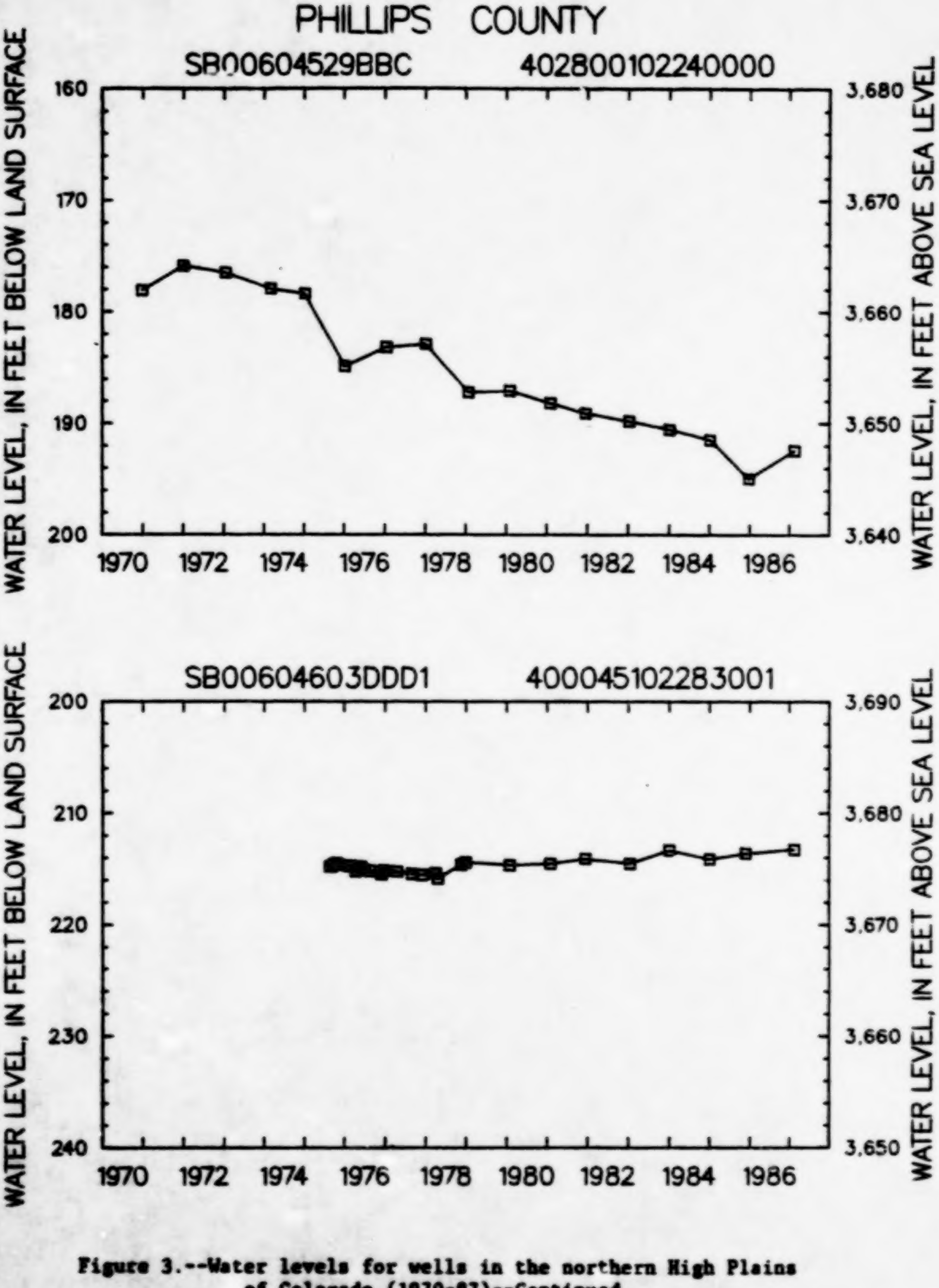


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

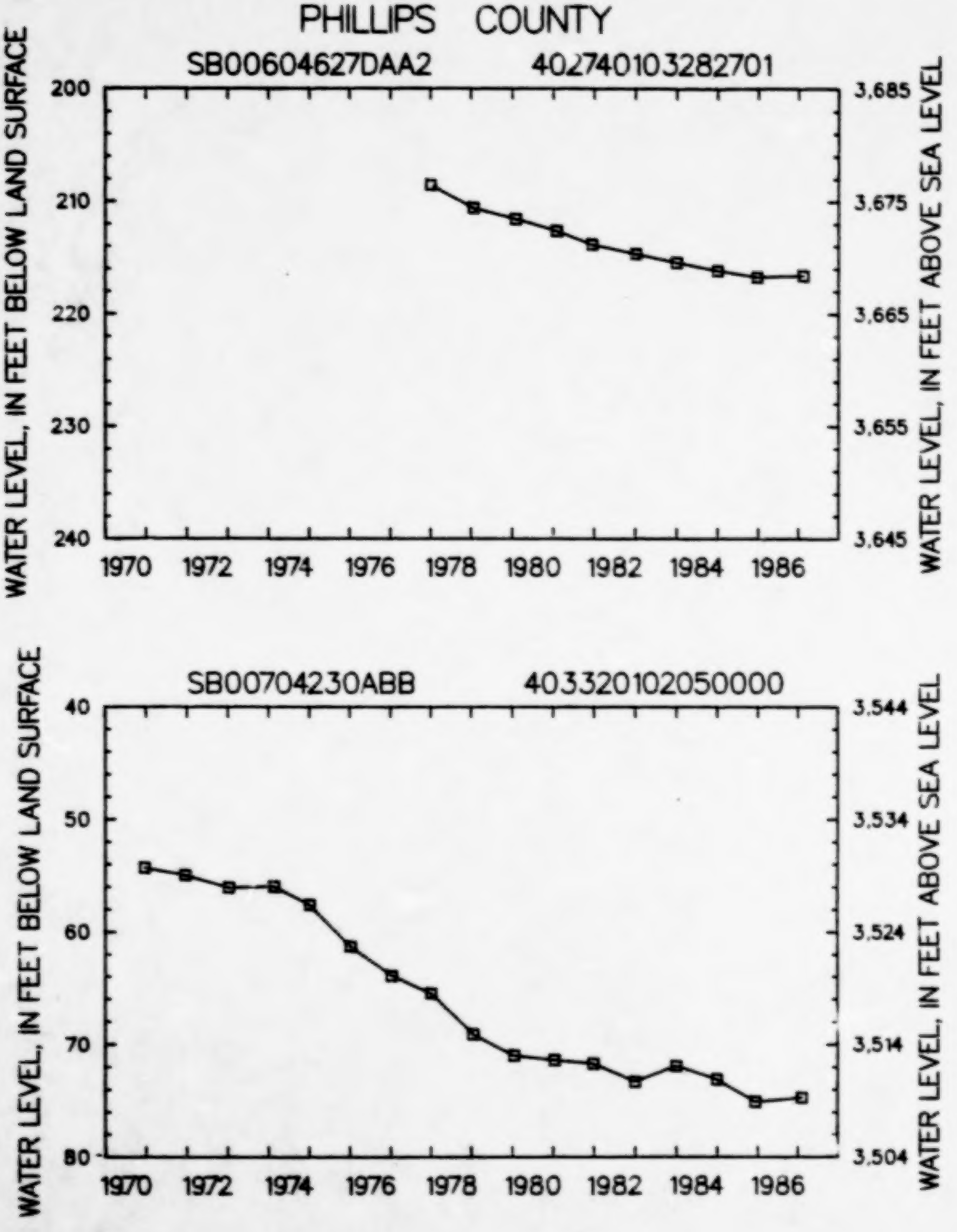


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

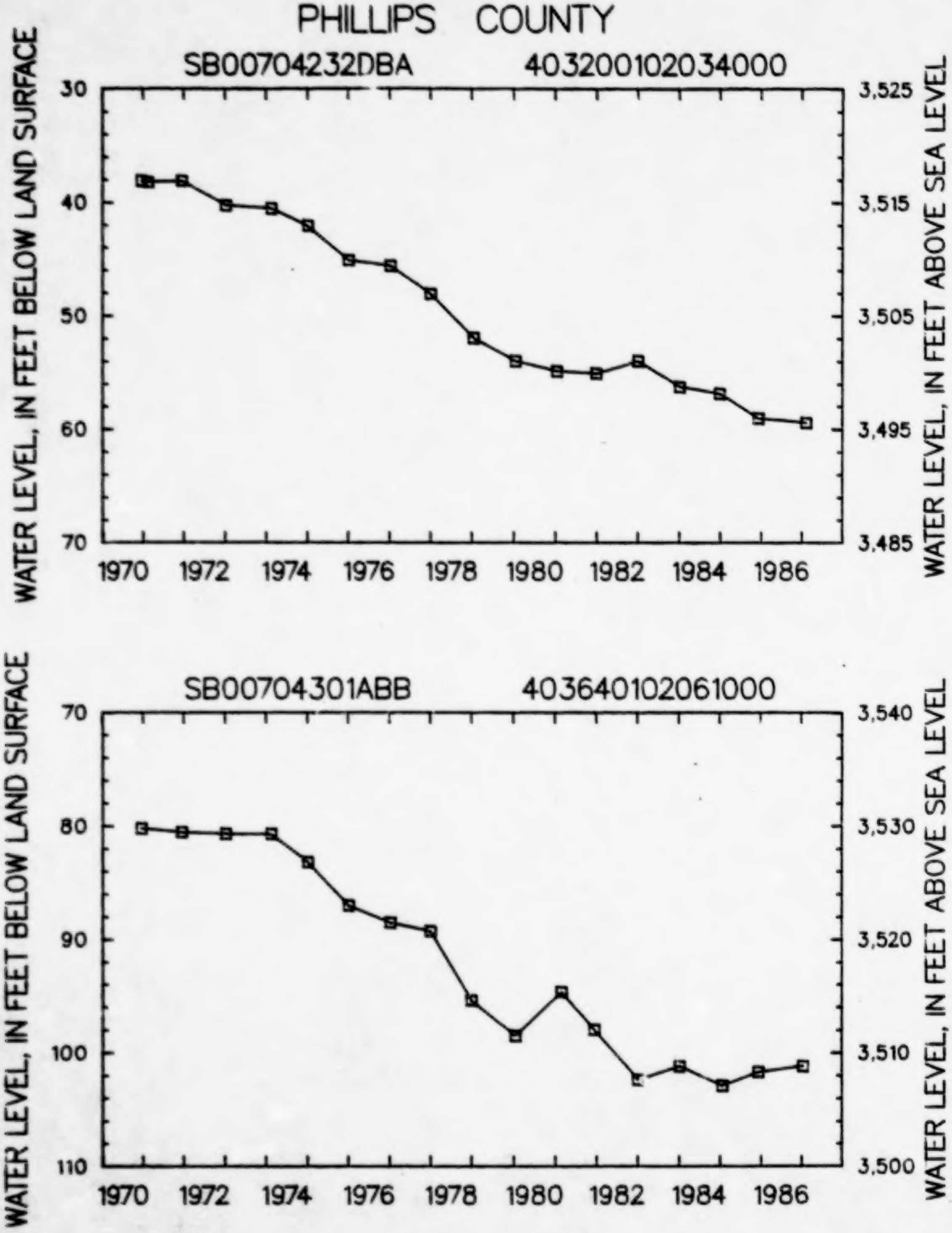


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

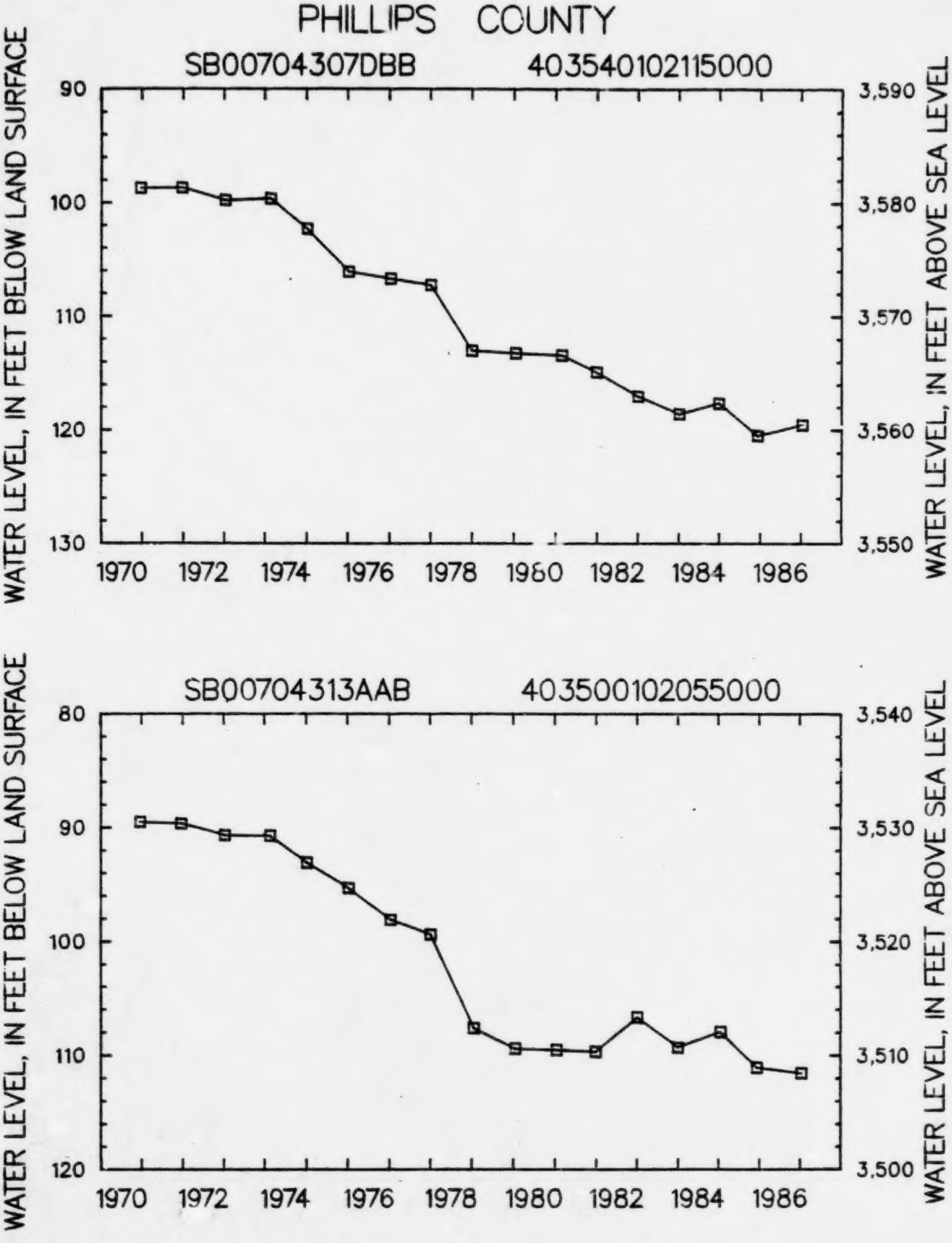
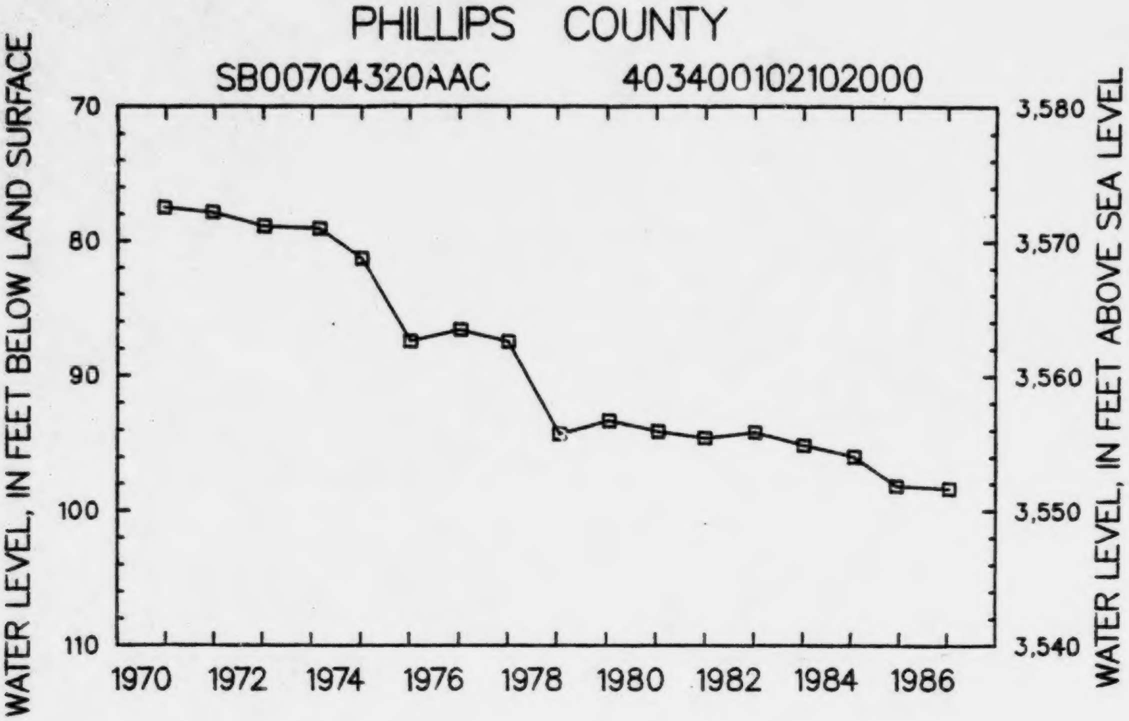


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



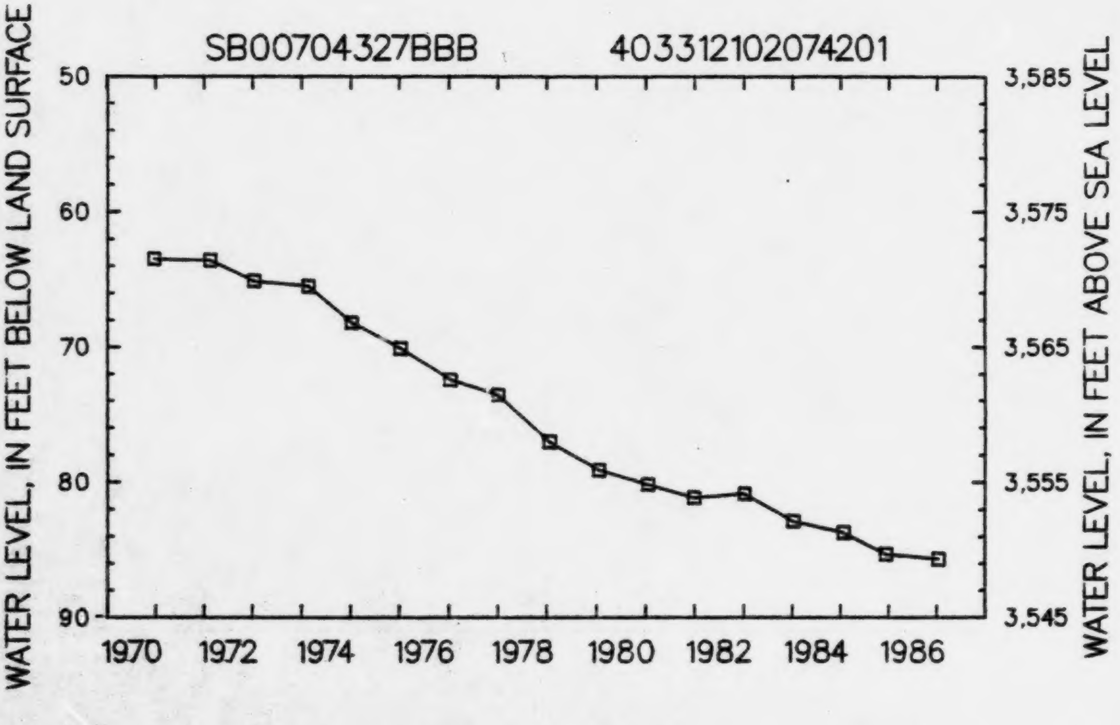


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

PHILLIPS COUNTY

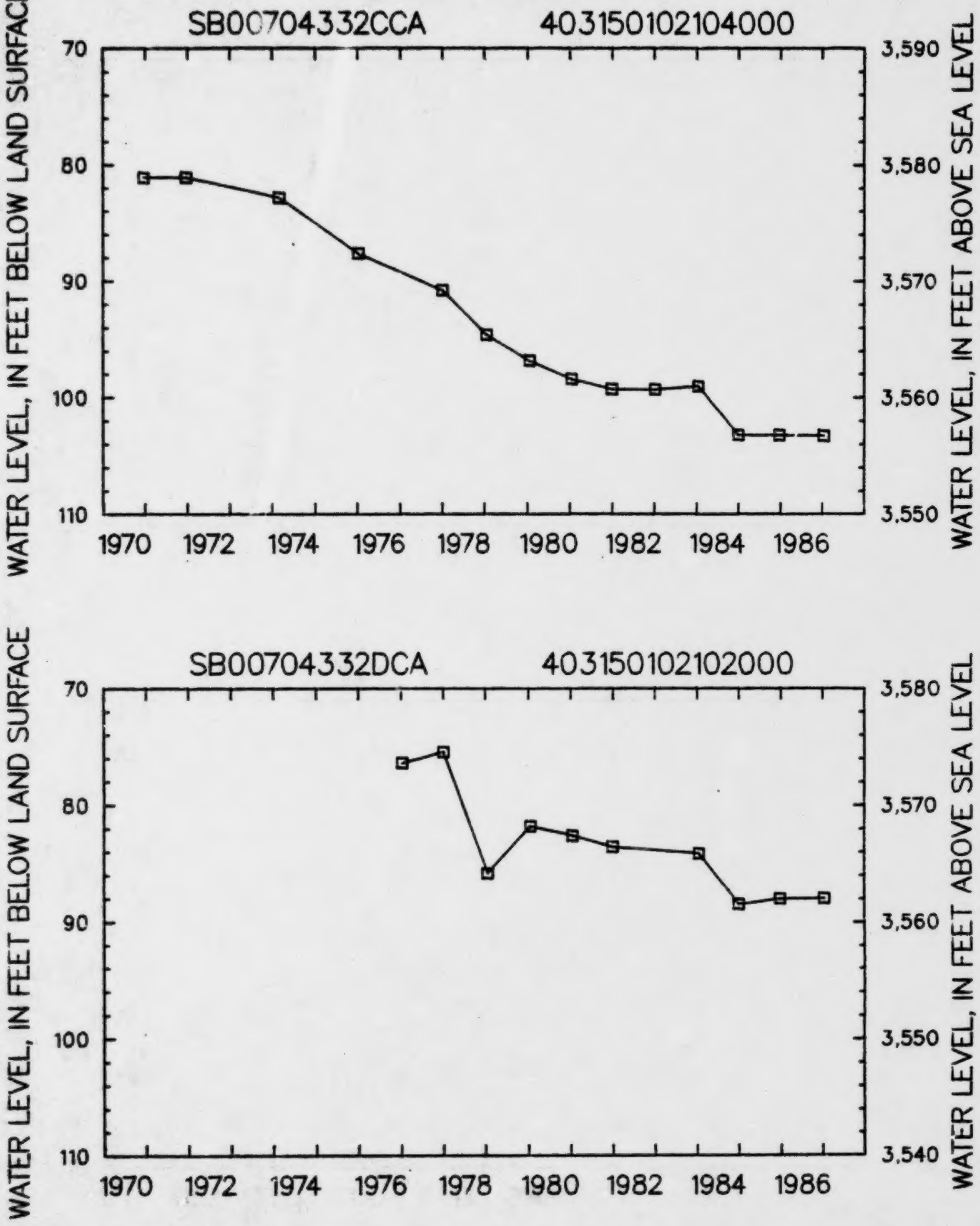
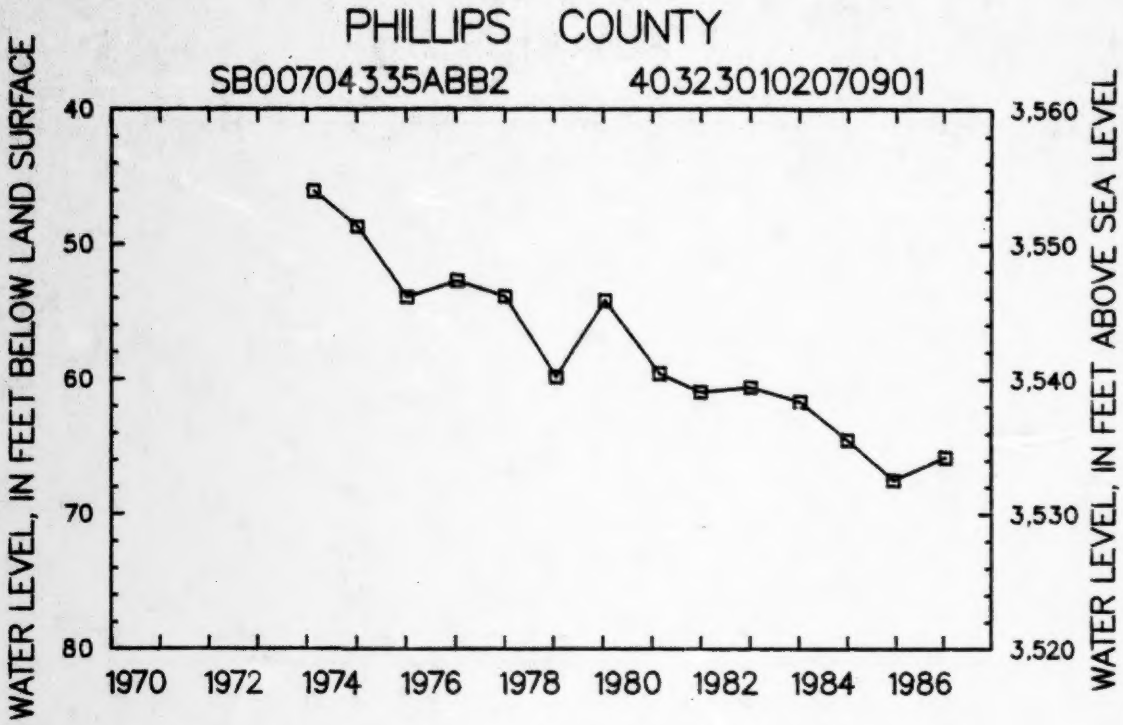


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



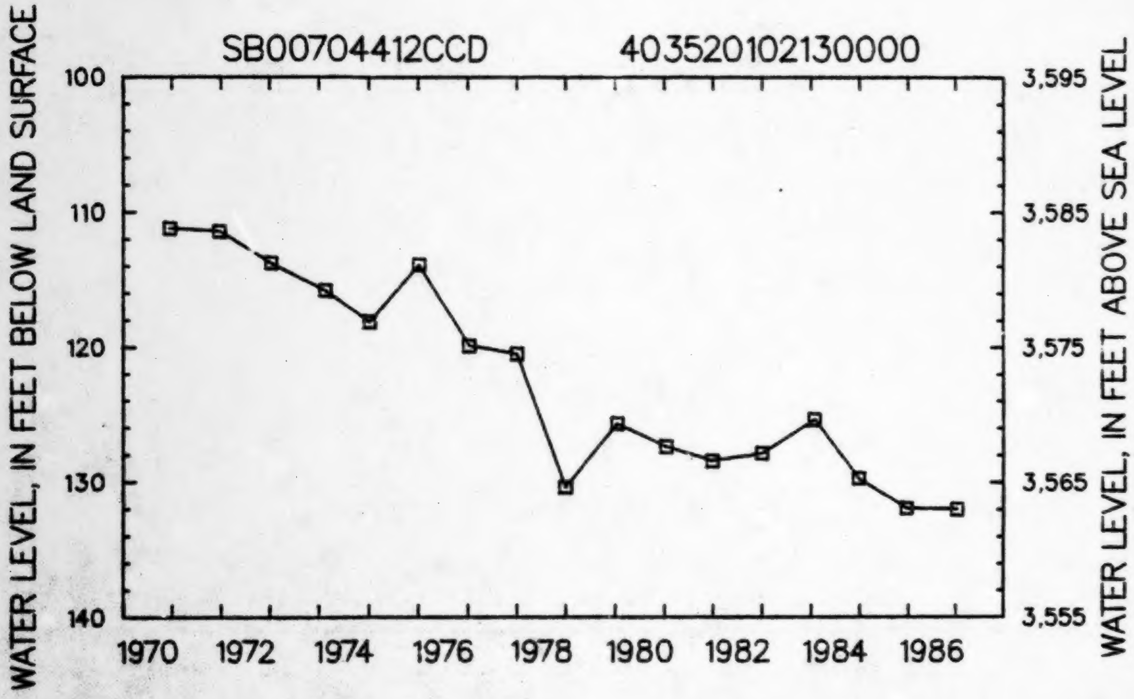


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

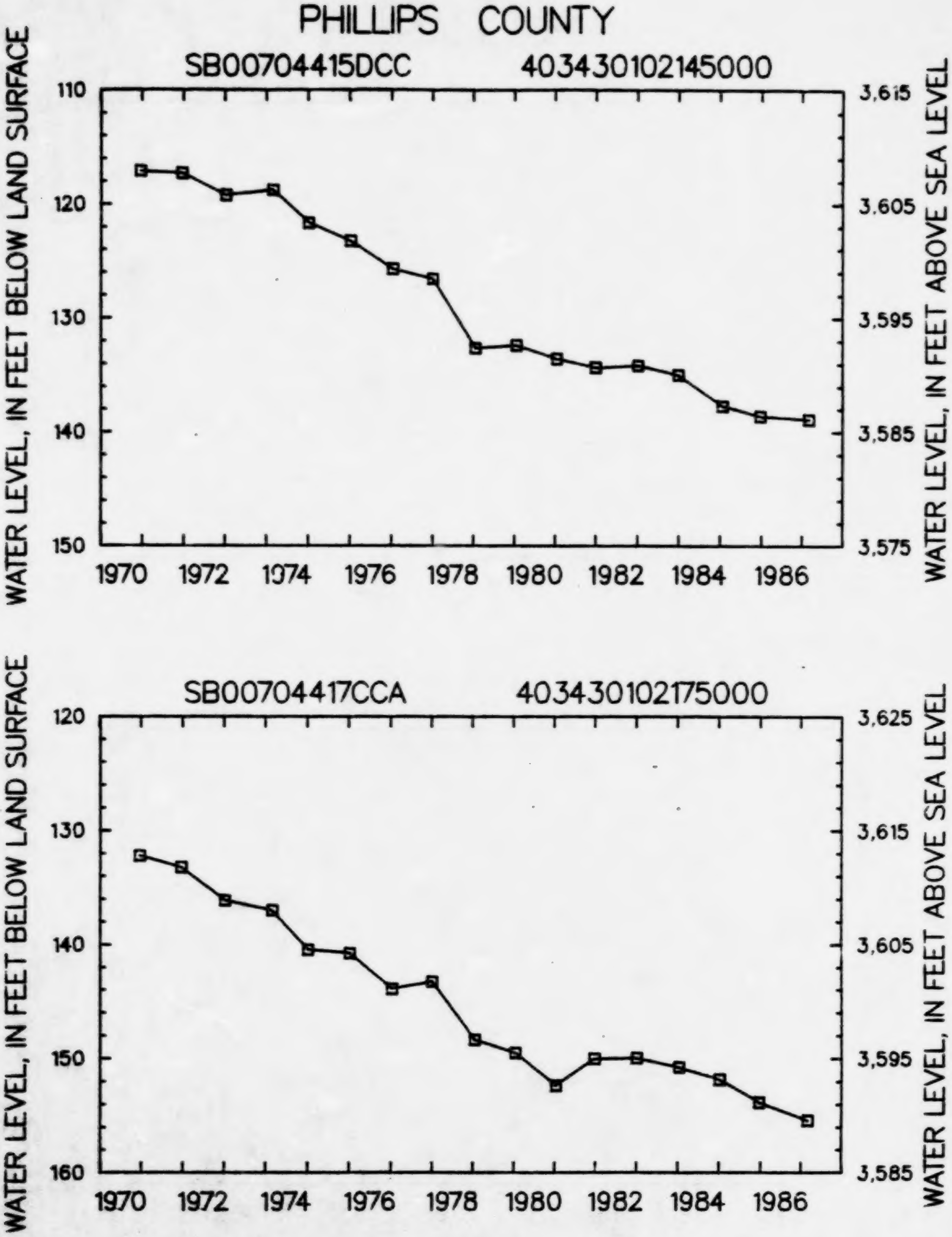


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

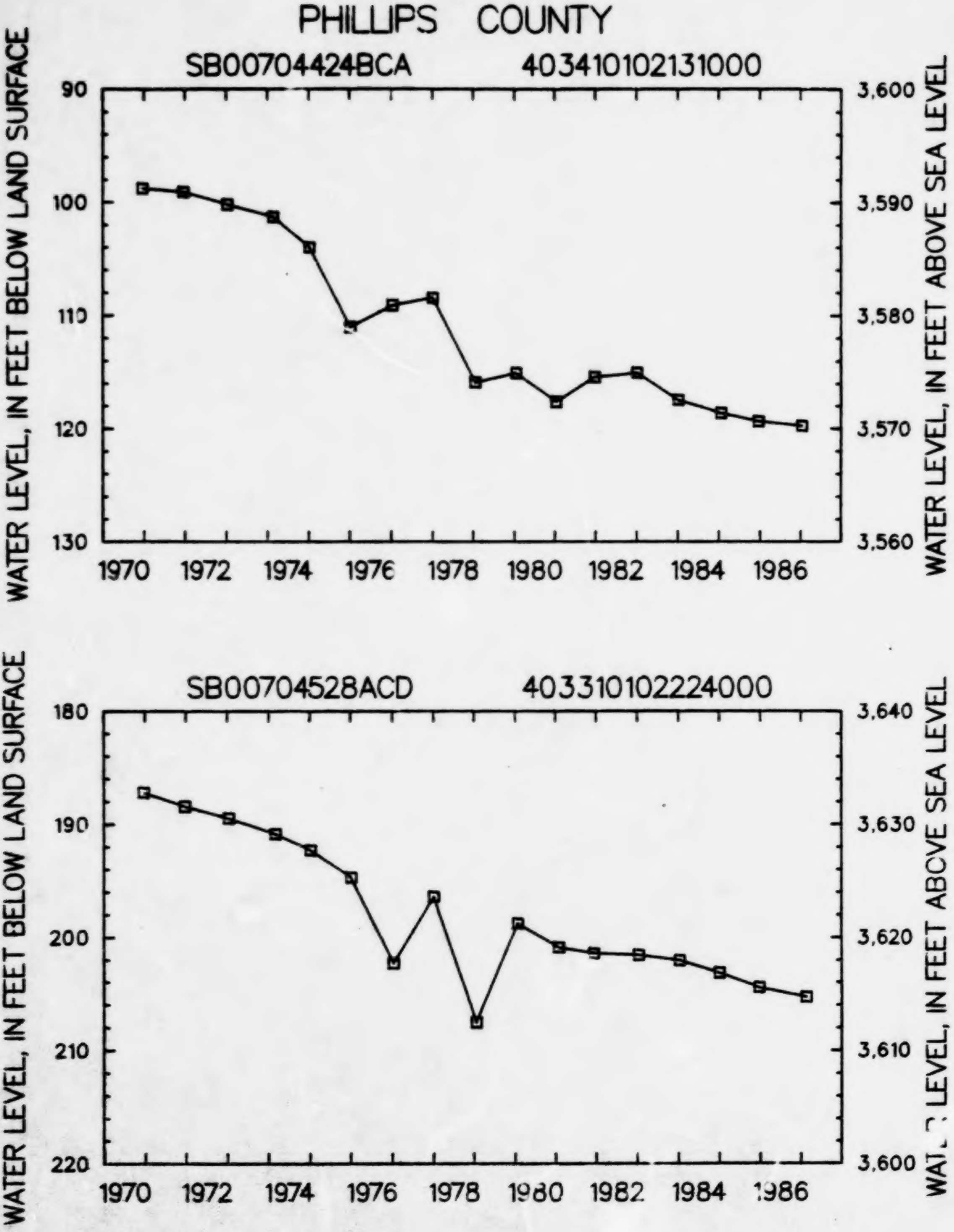


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

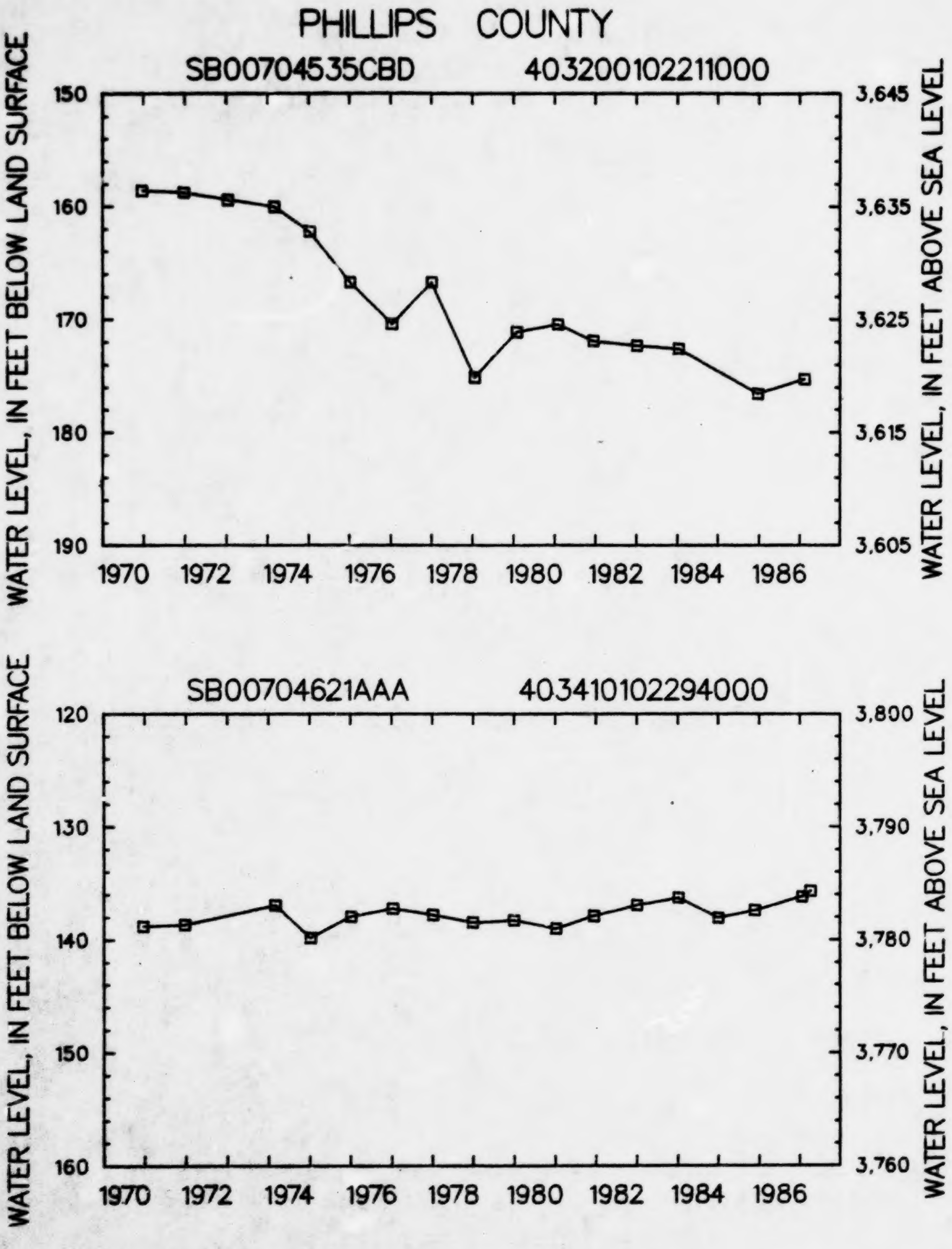
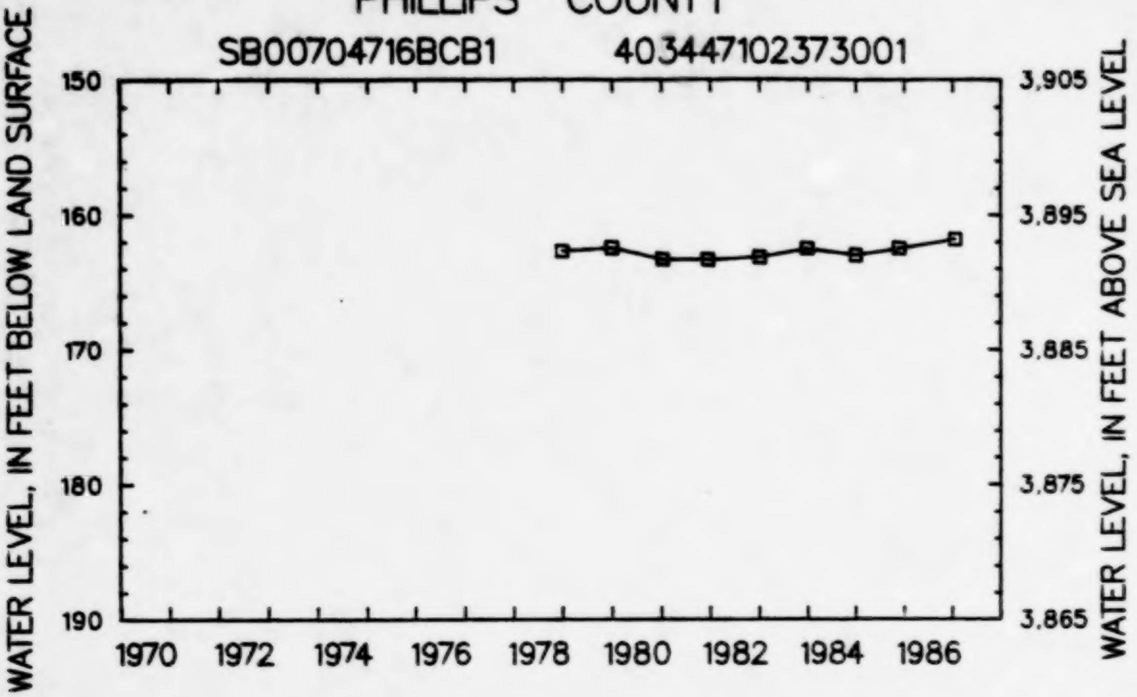


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

PHILLIPS COUNTY



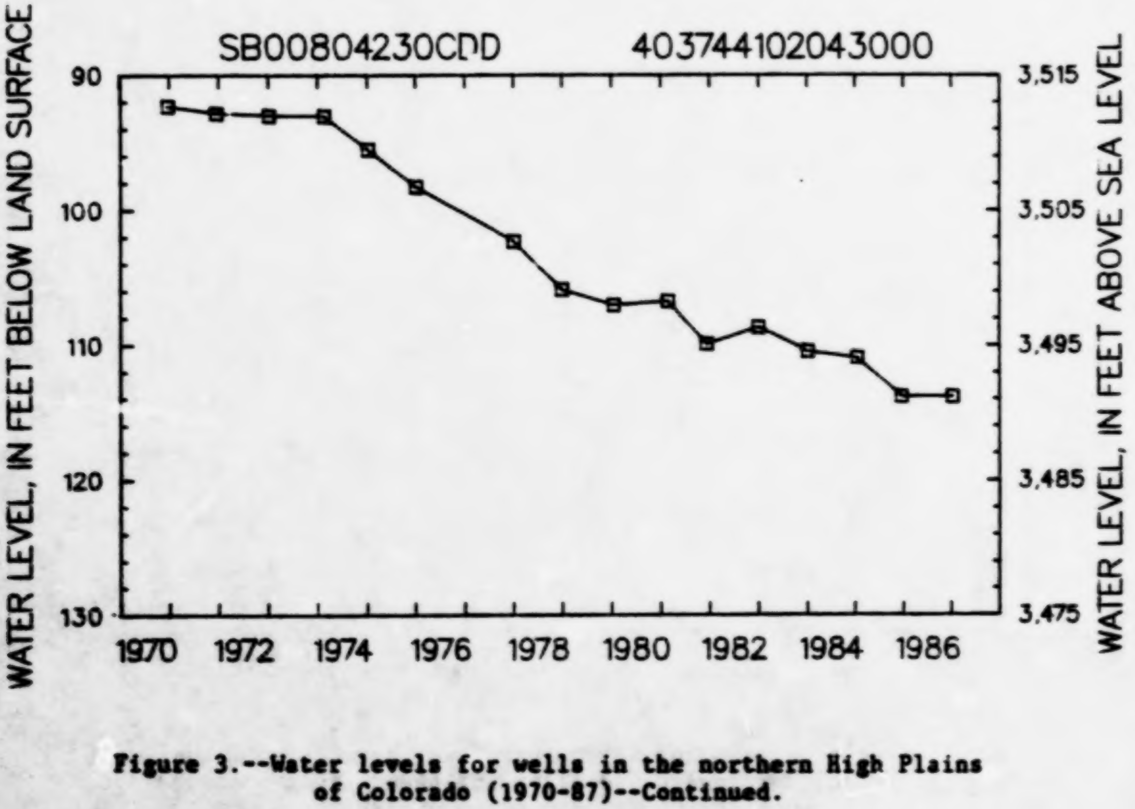


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

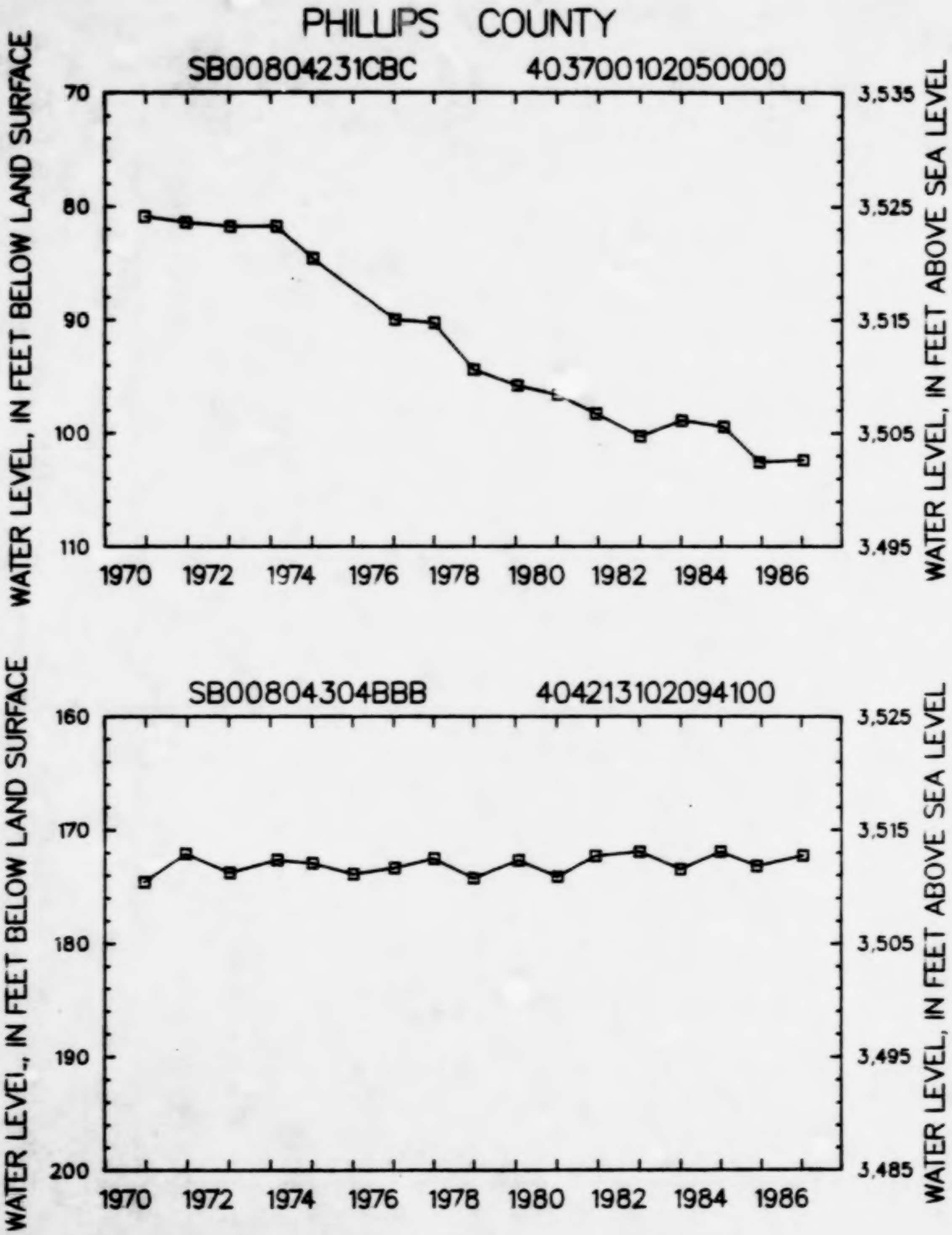


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

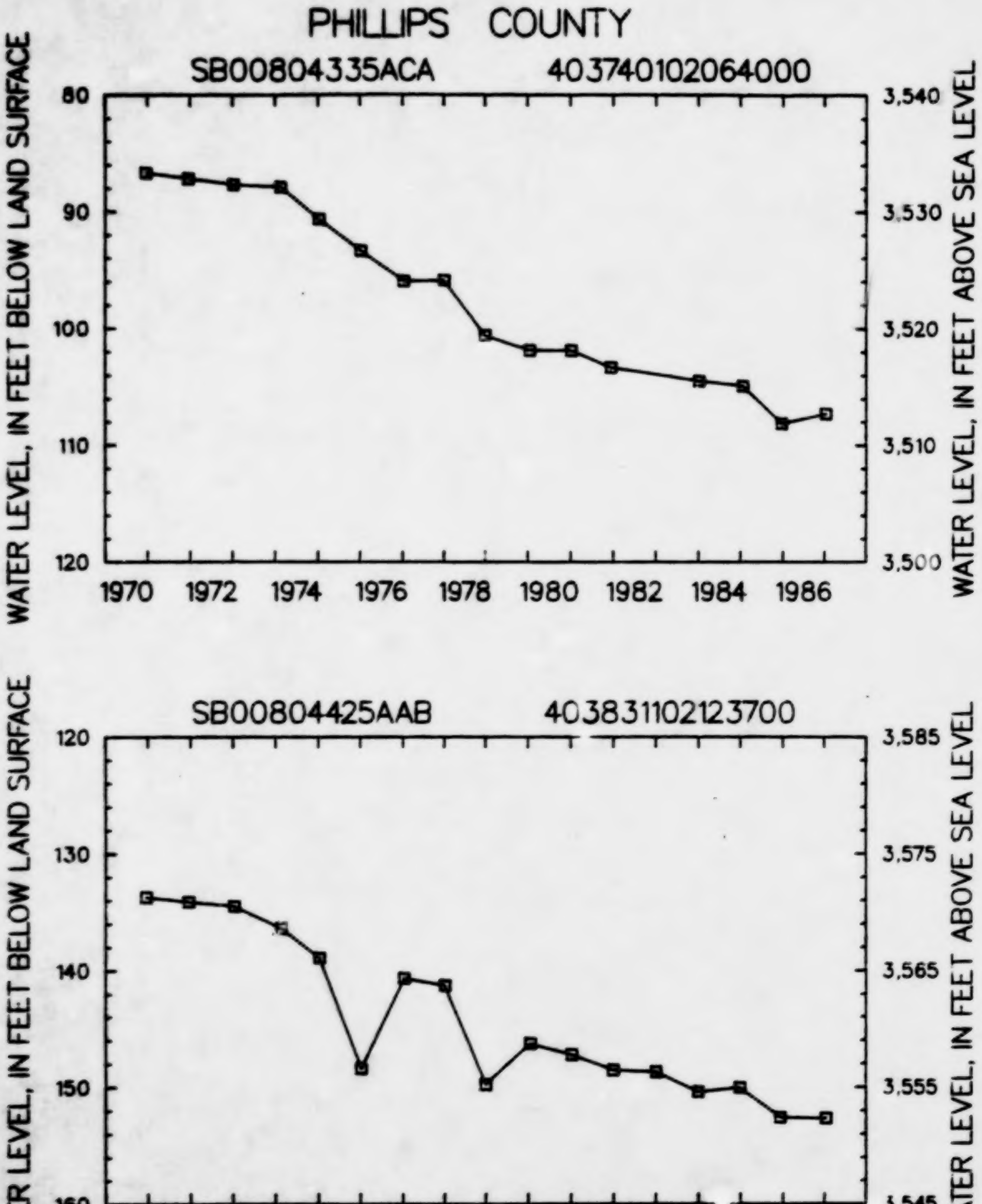


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

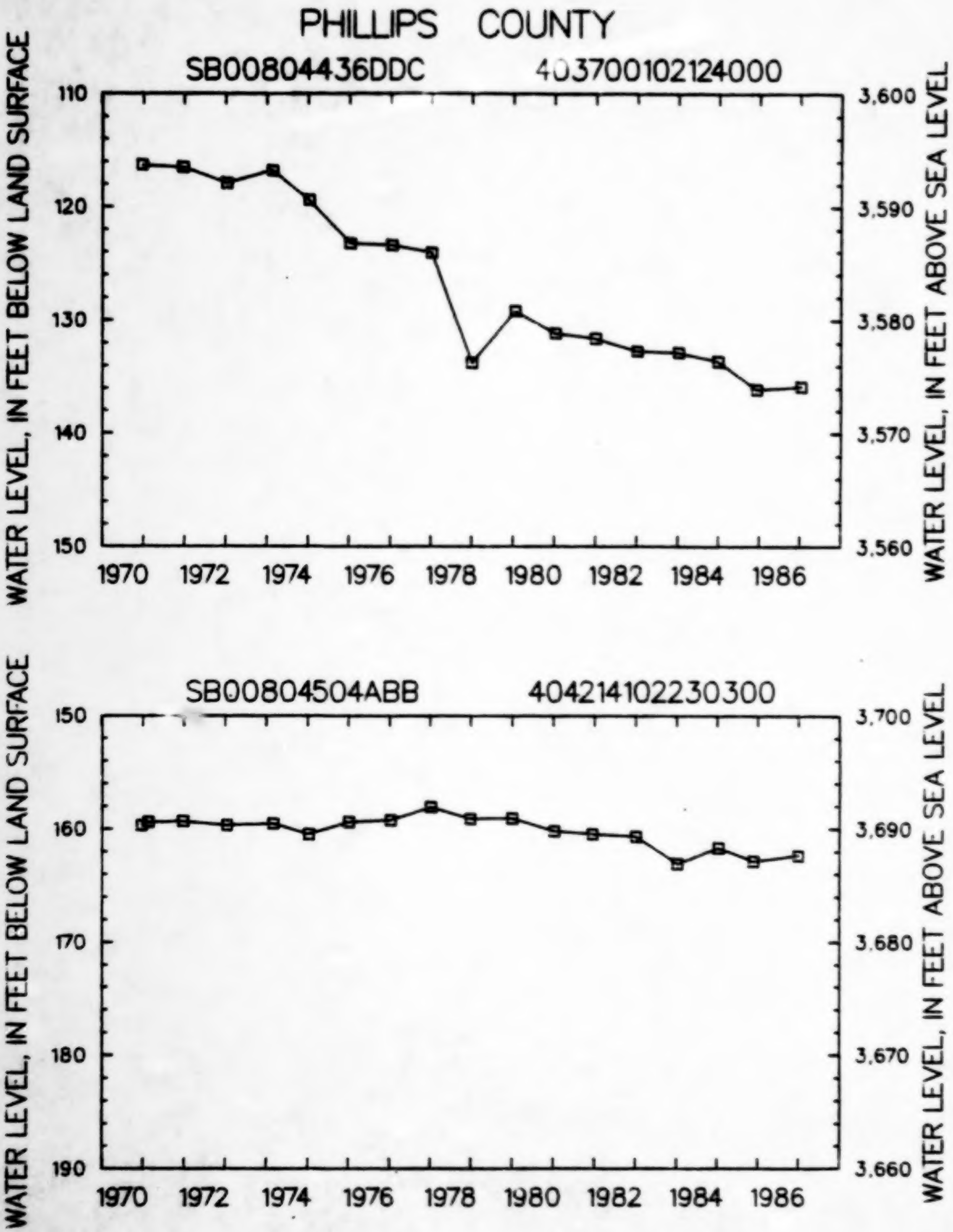


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

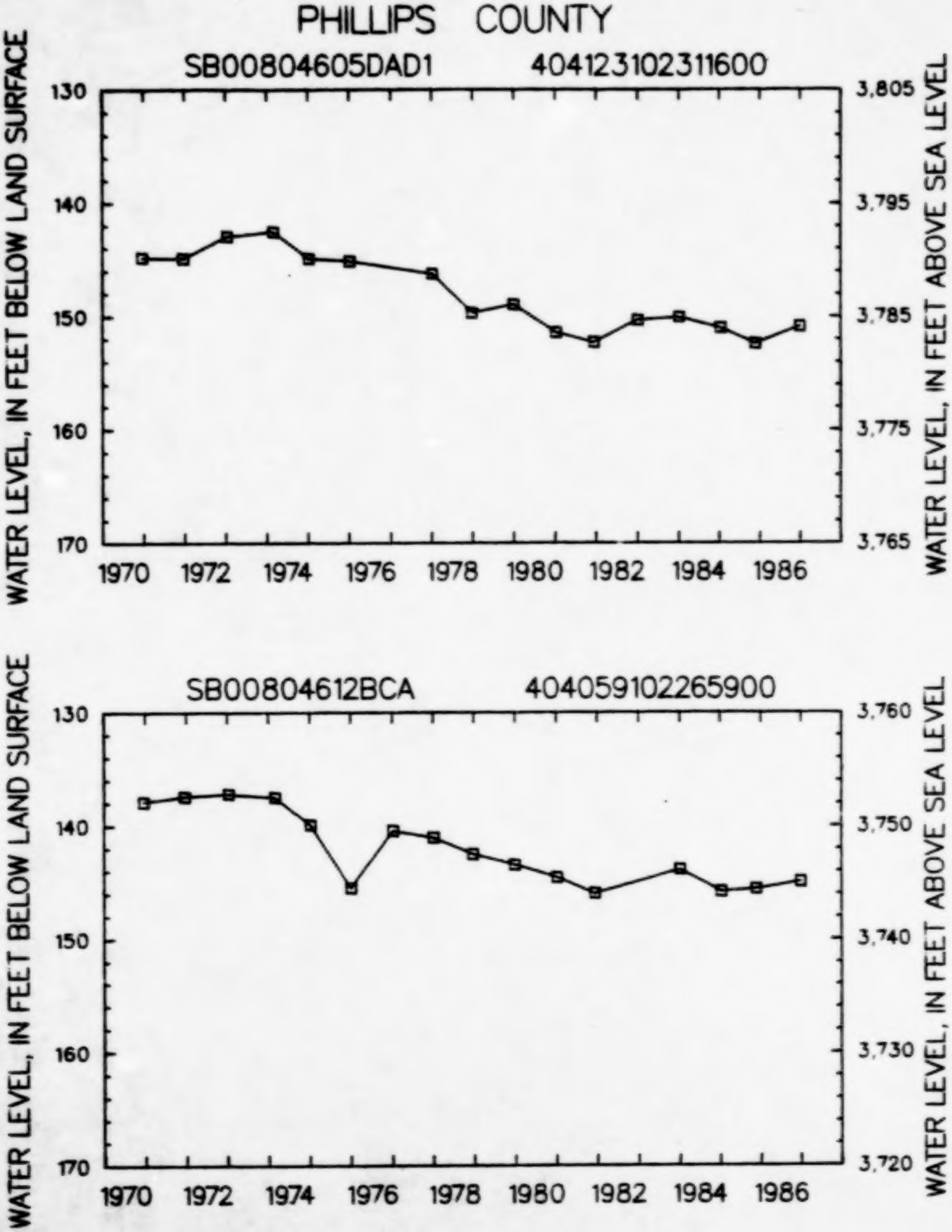


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

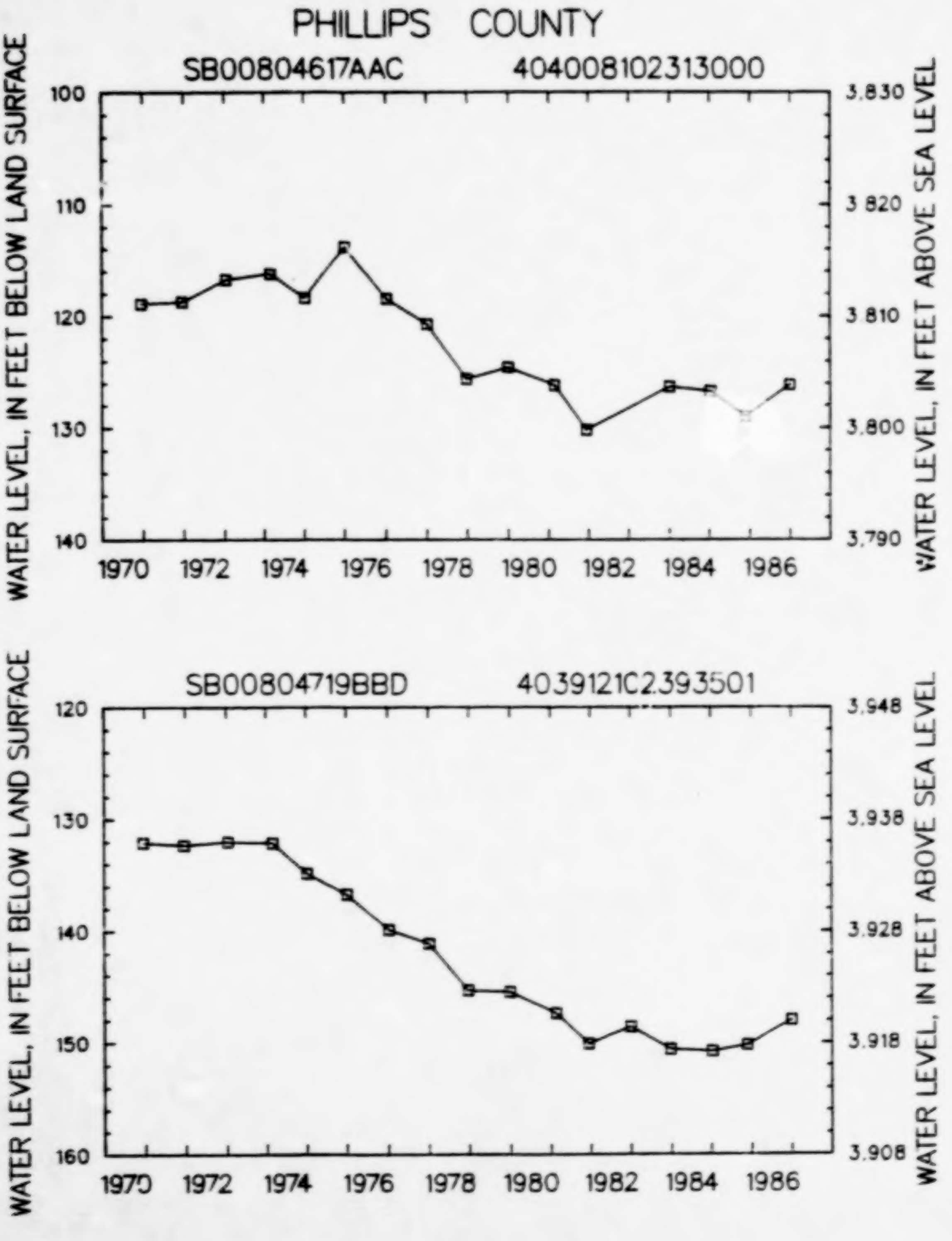


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

PHILLIPS COUNTY

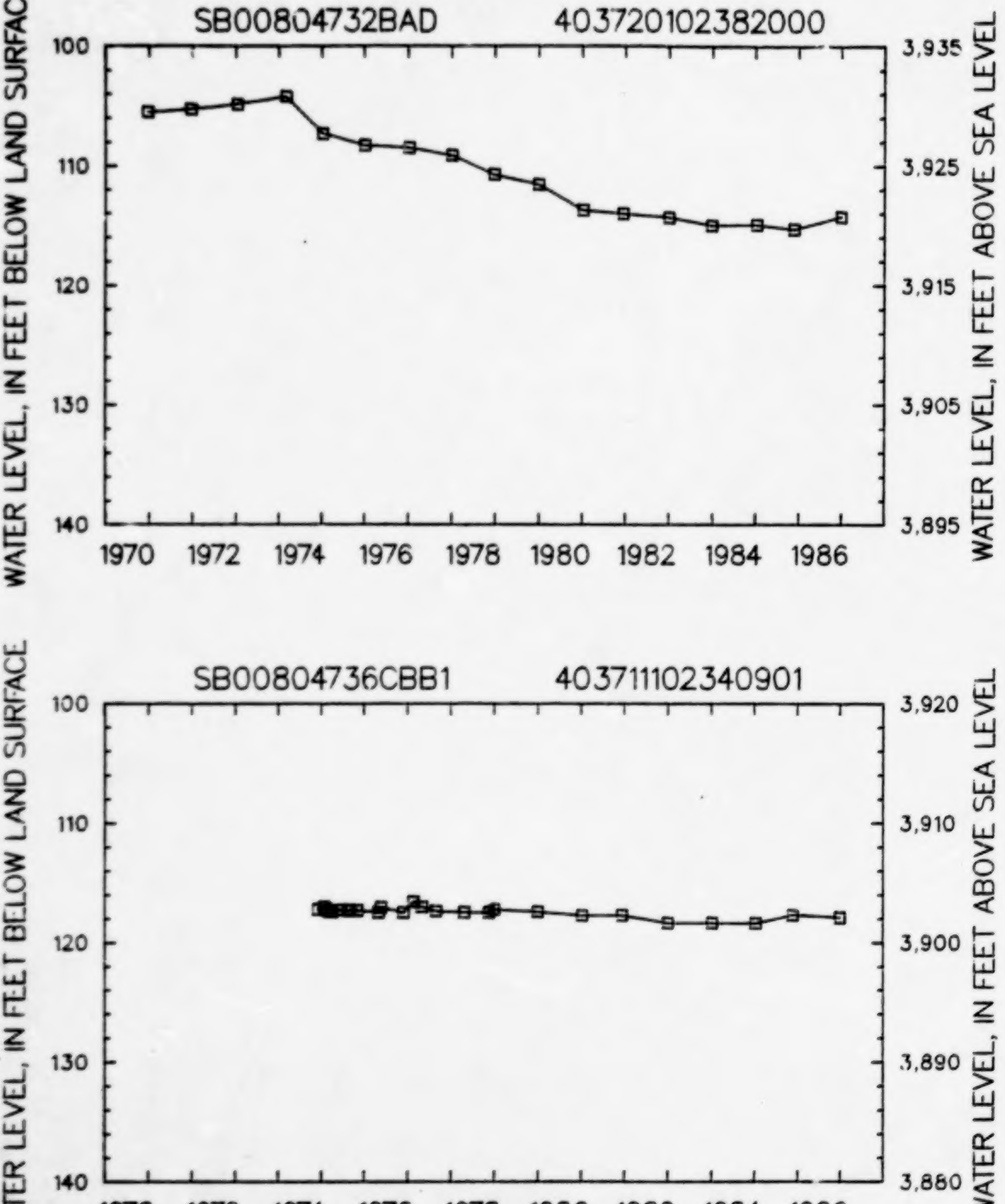


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

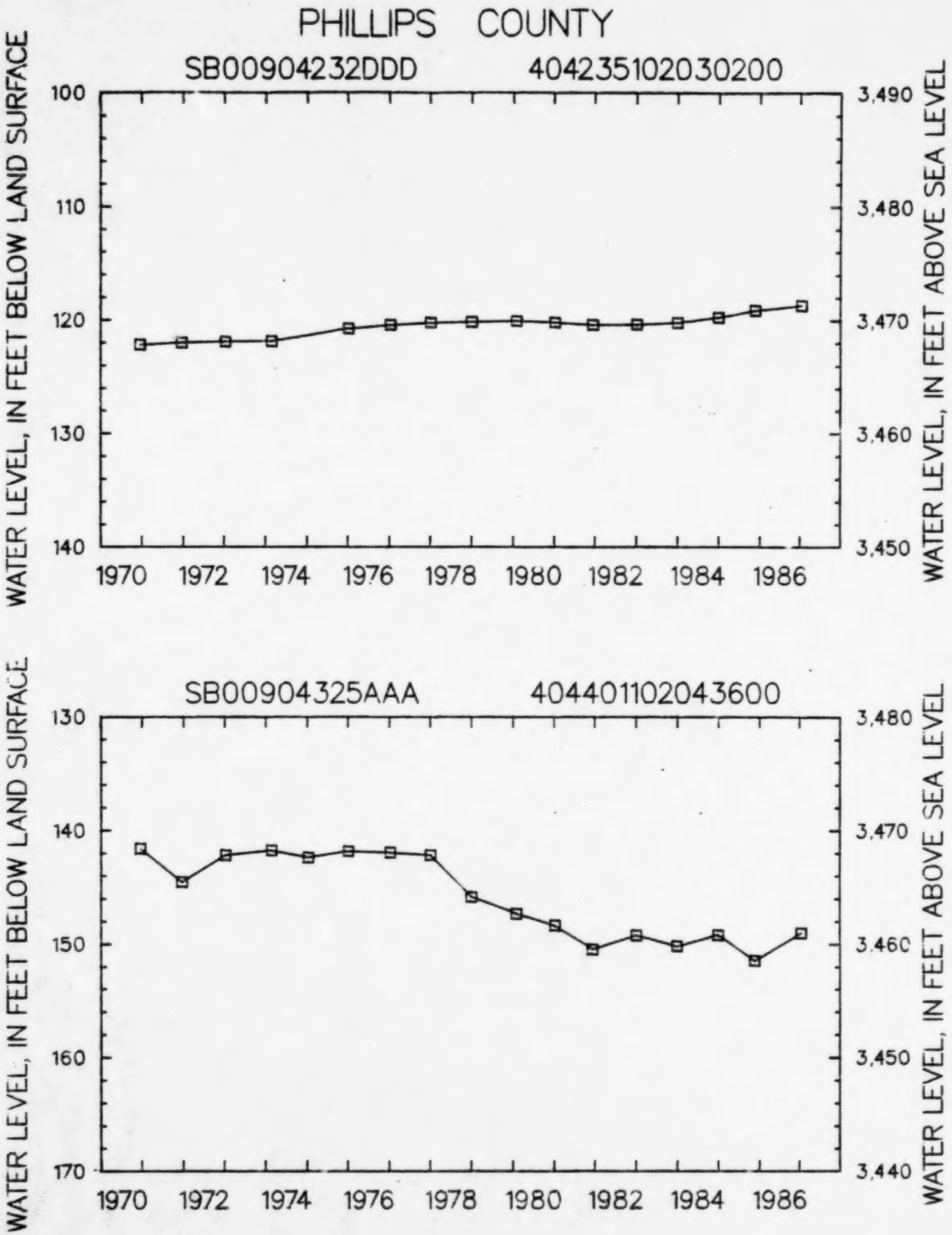
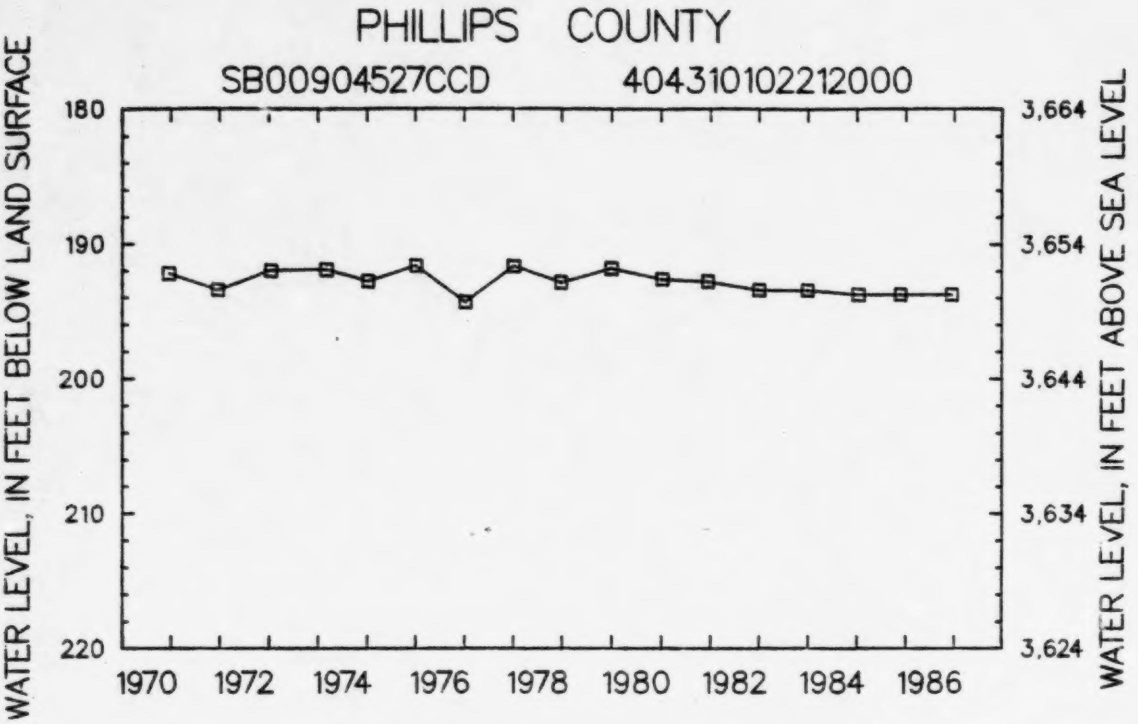


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



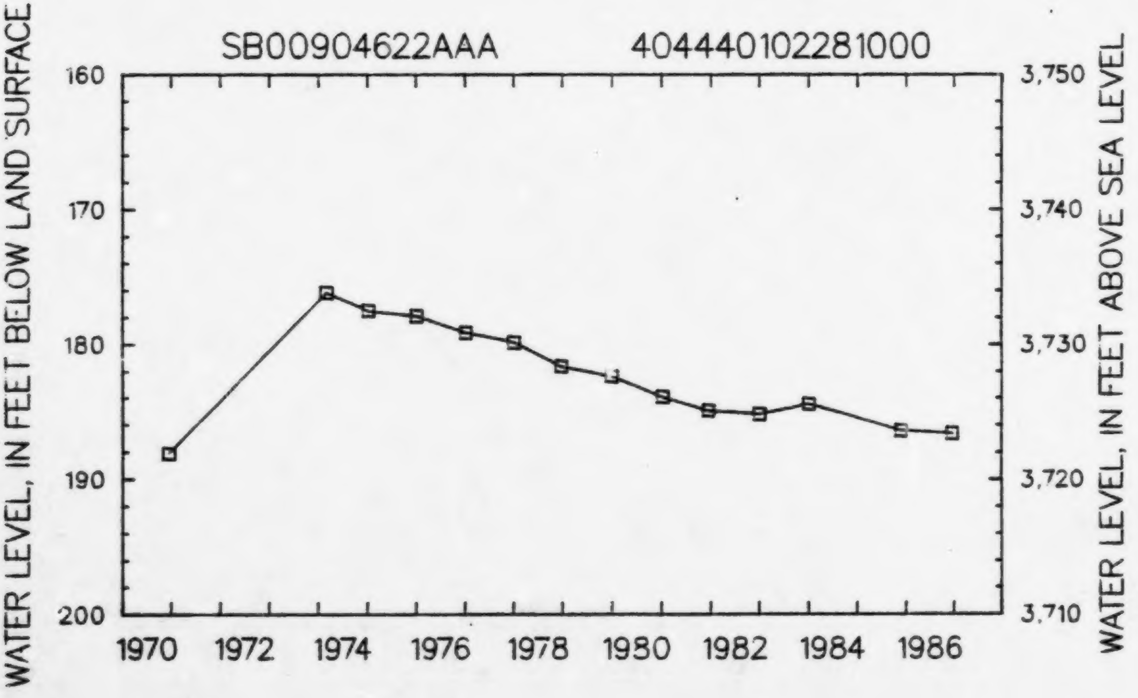


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

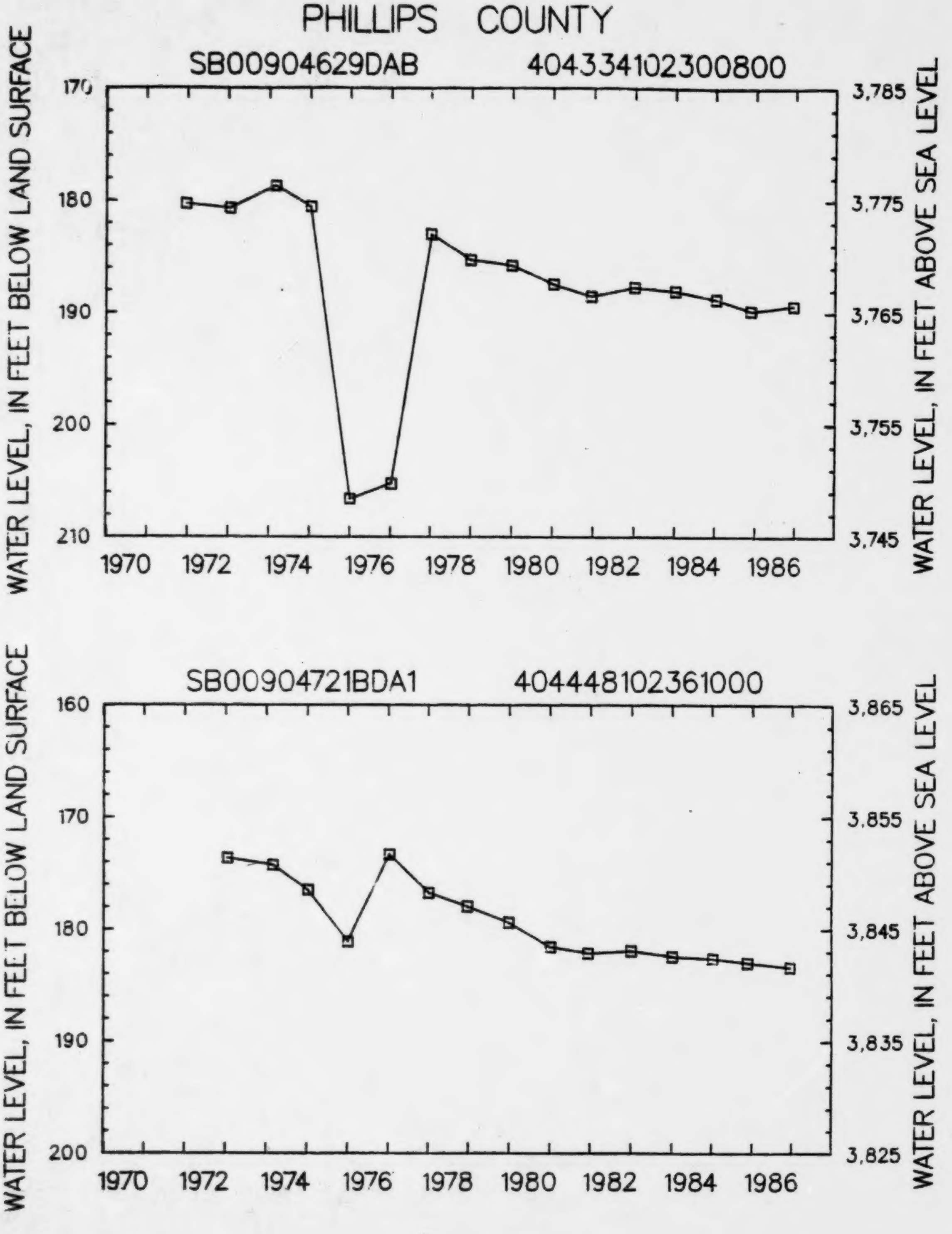


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

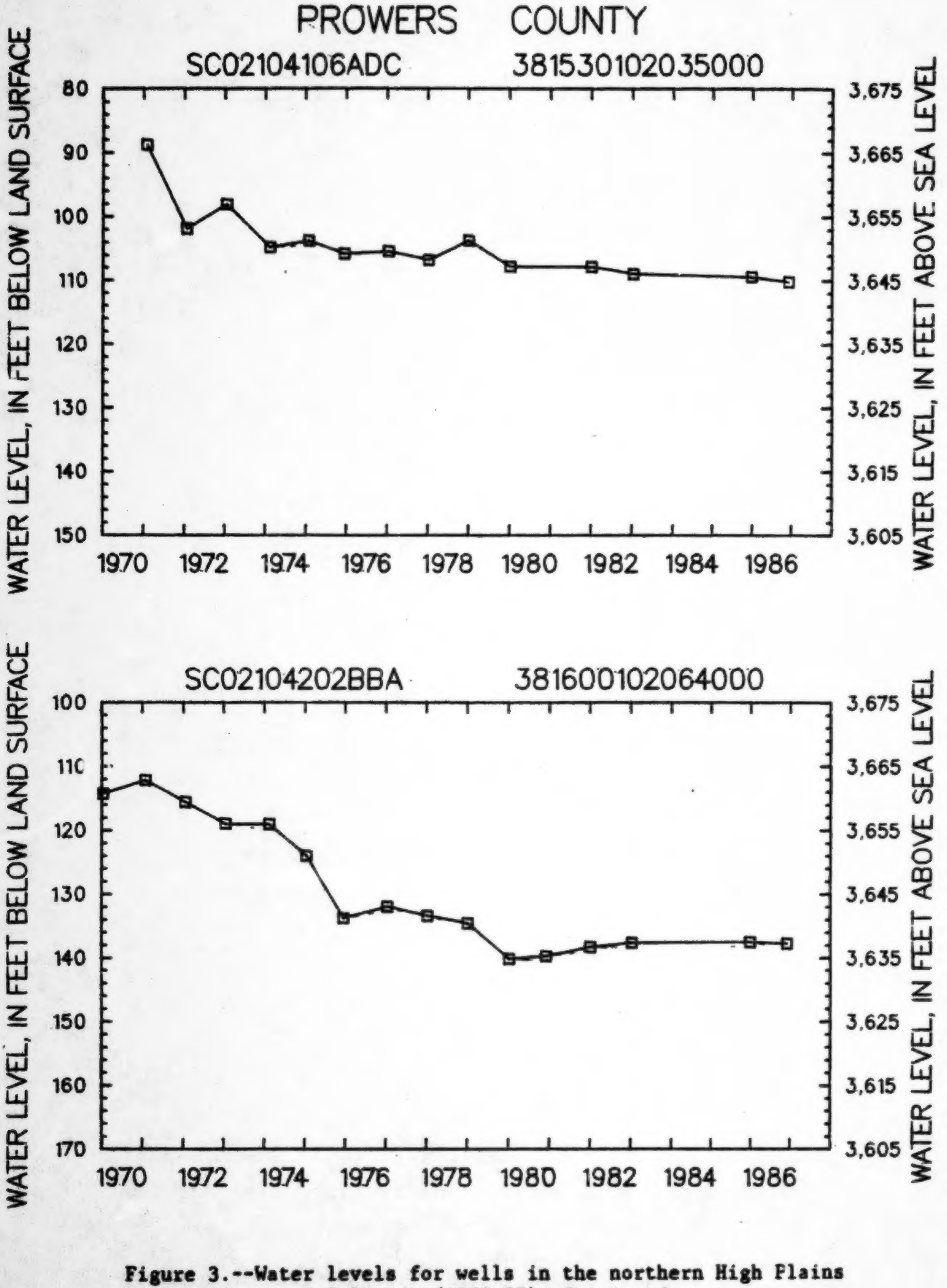


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

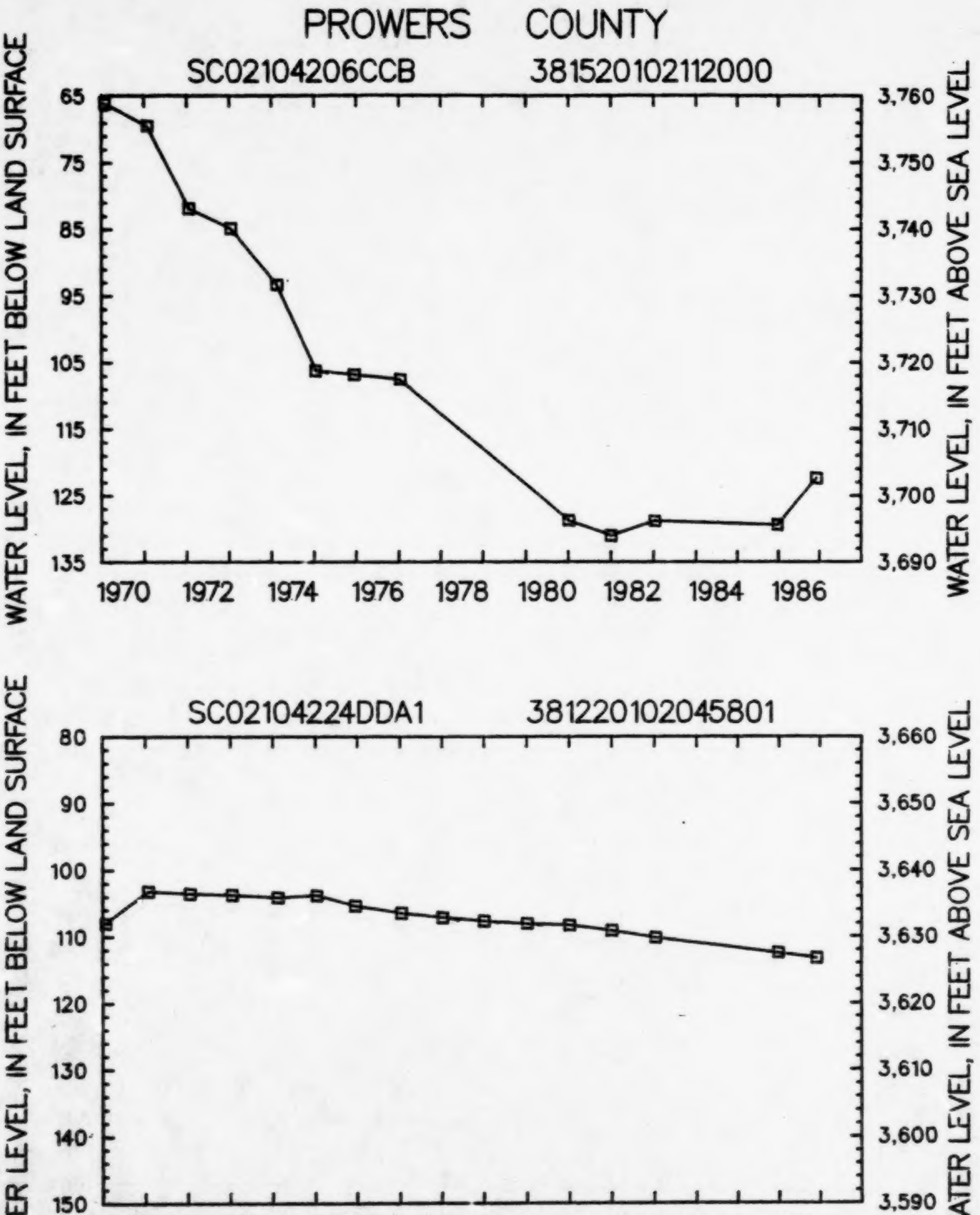


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

PROWERS COUNTY

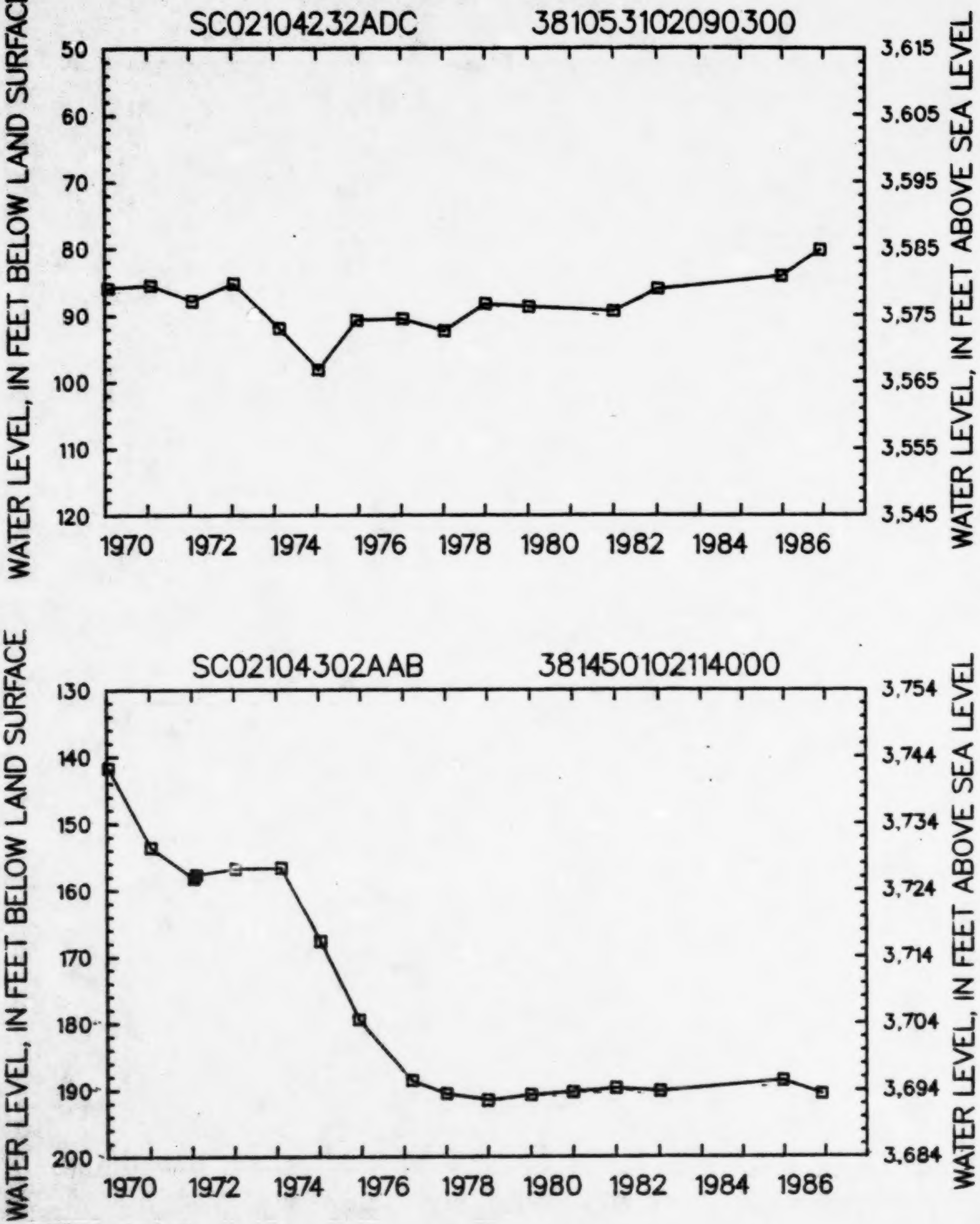


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

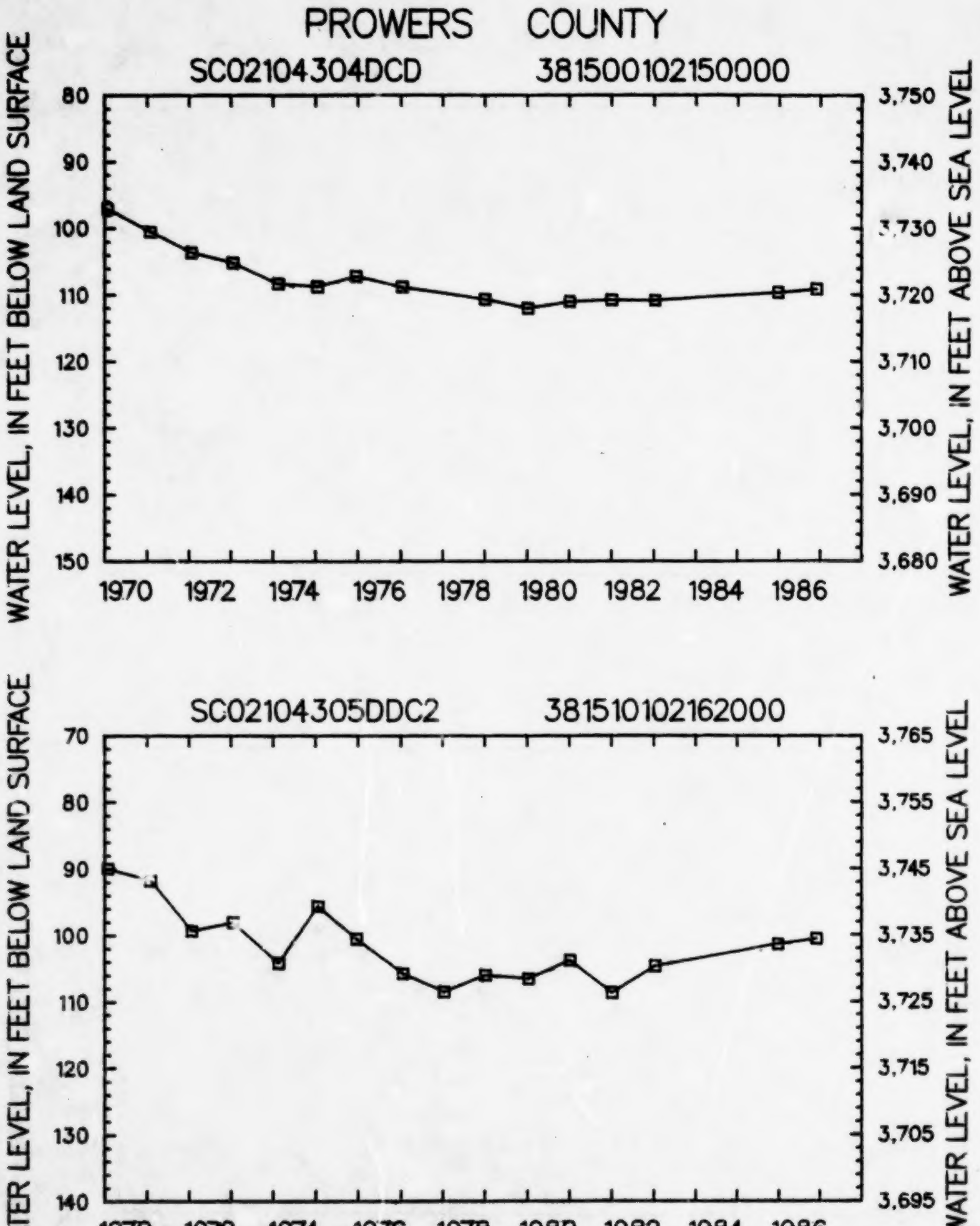


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

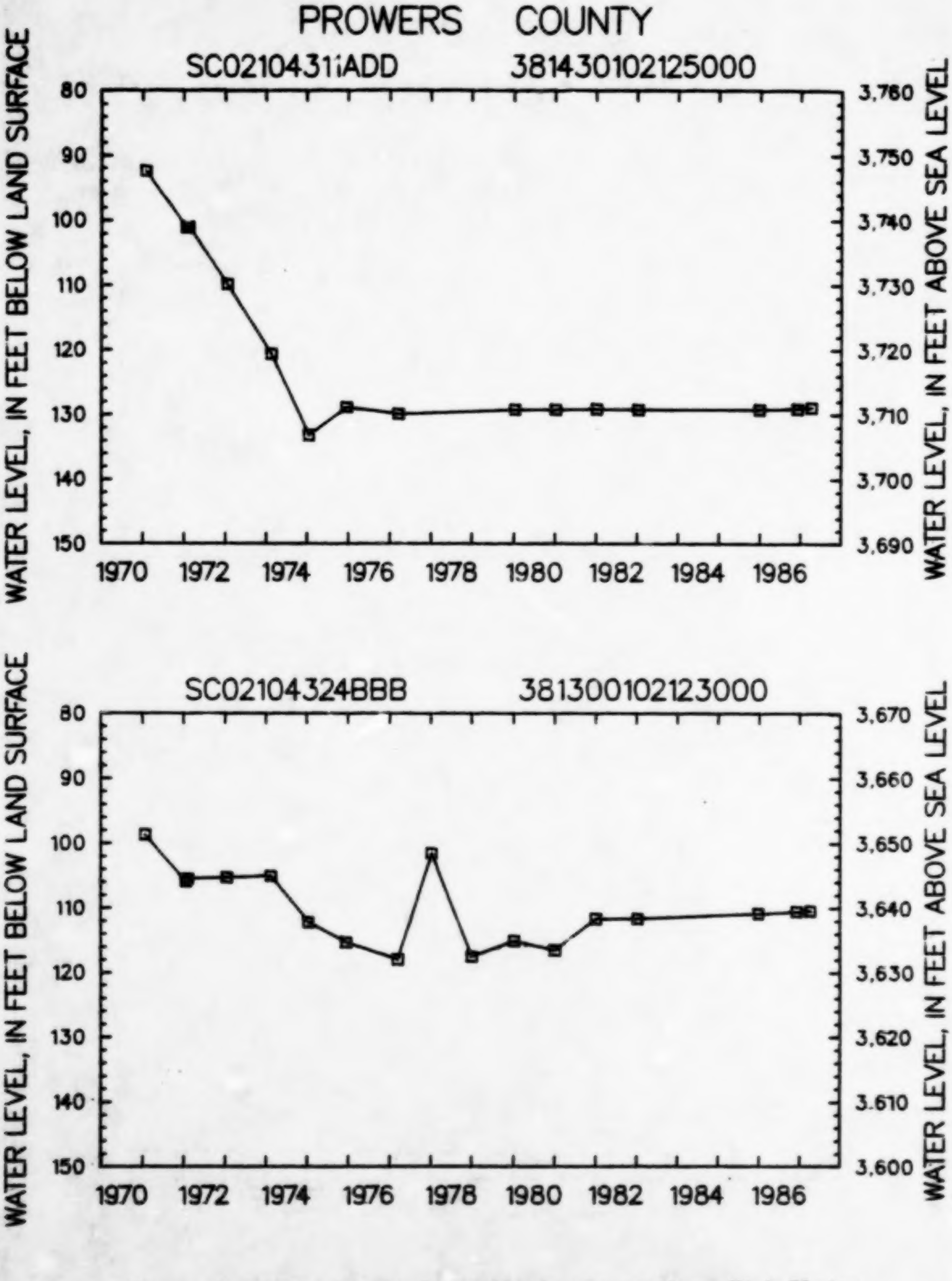


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

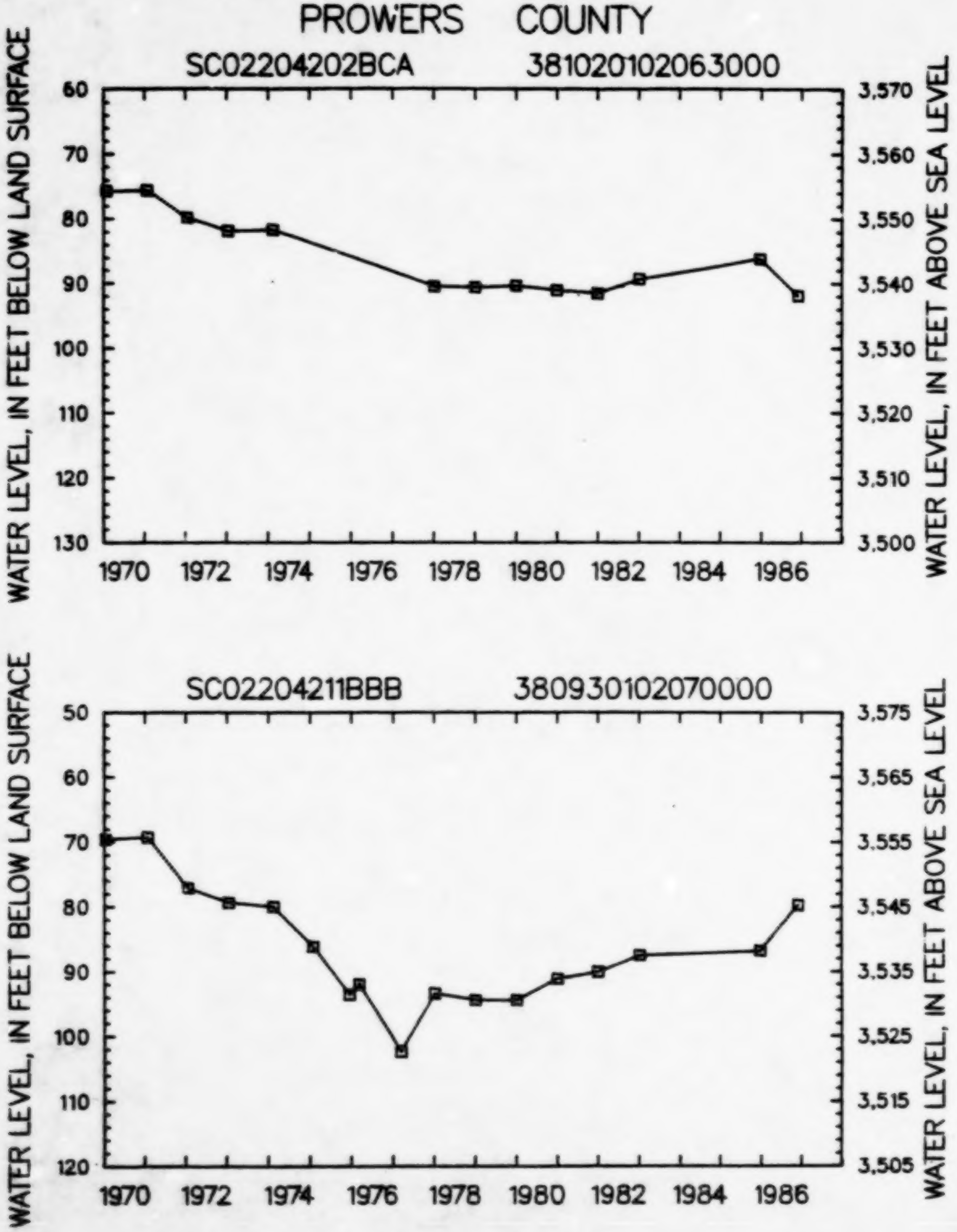


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

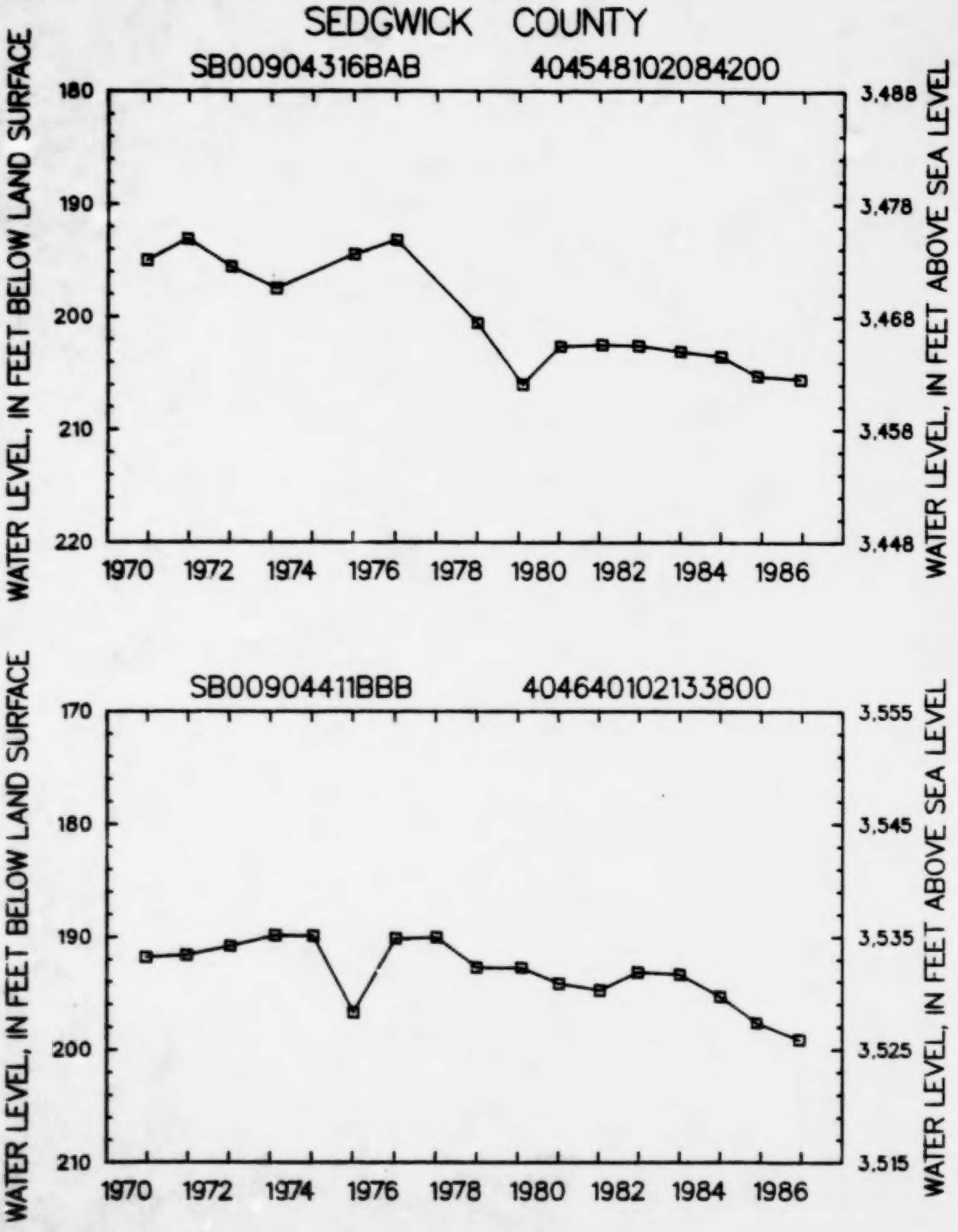


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

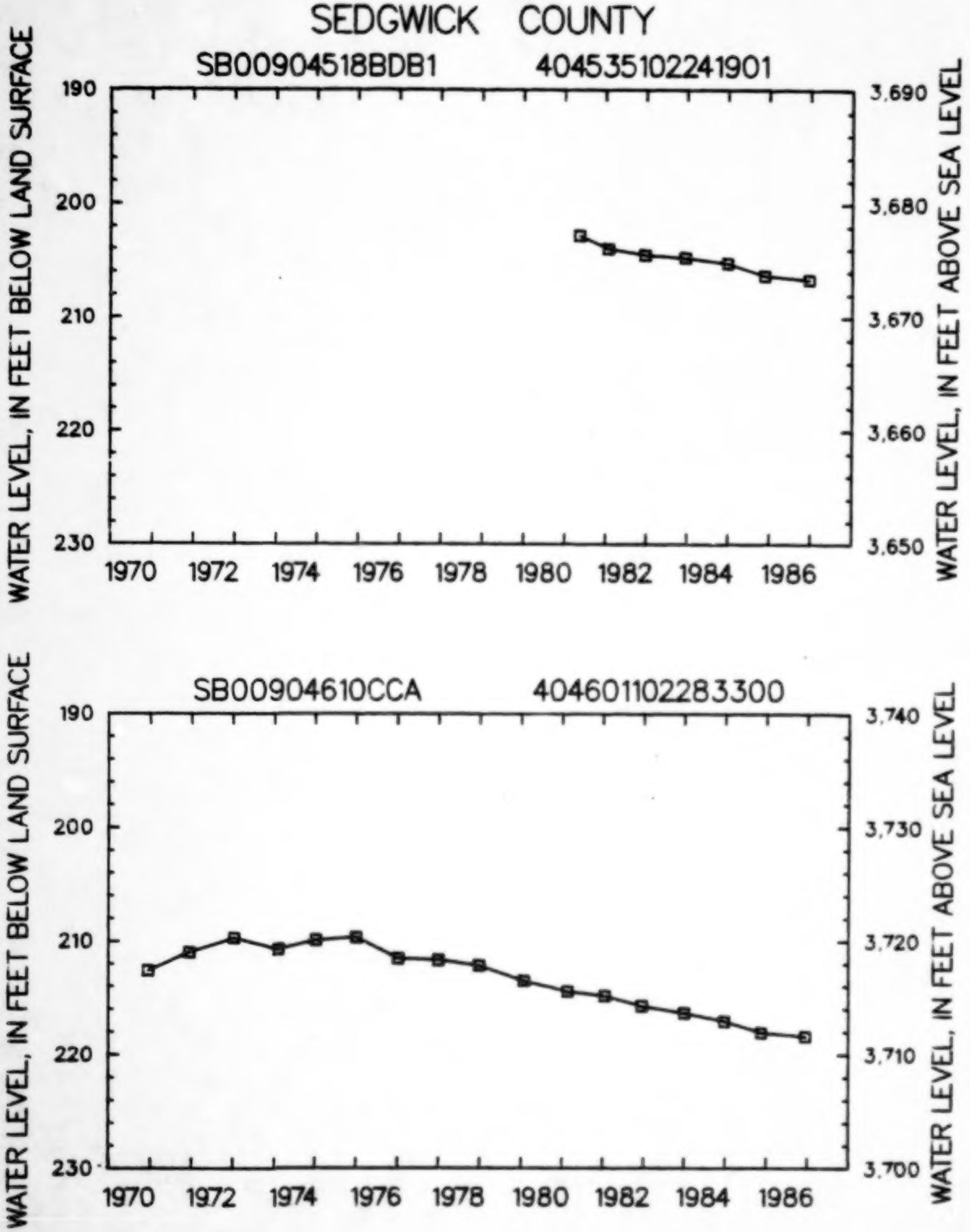


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

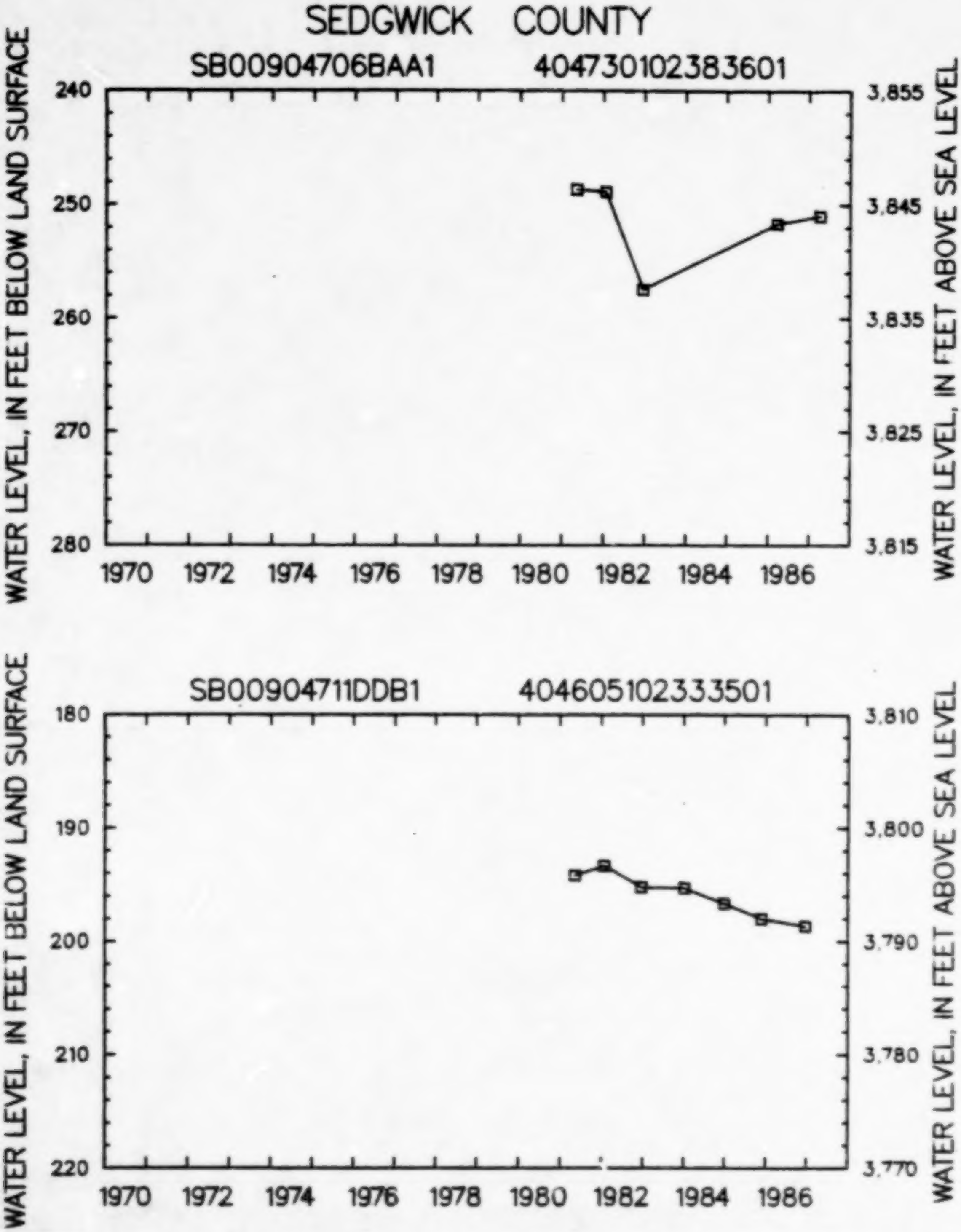


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

SEDGWICK COUNTY

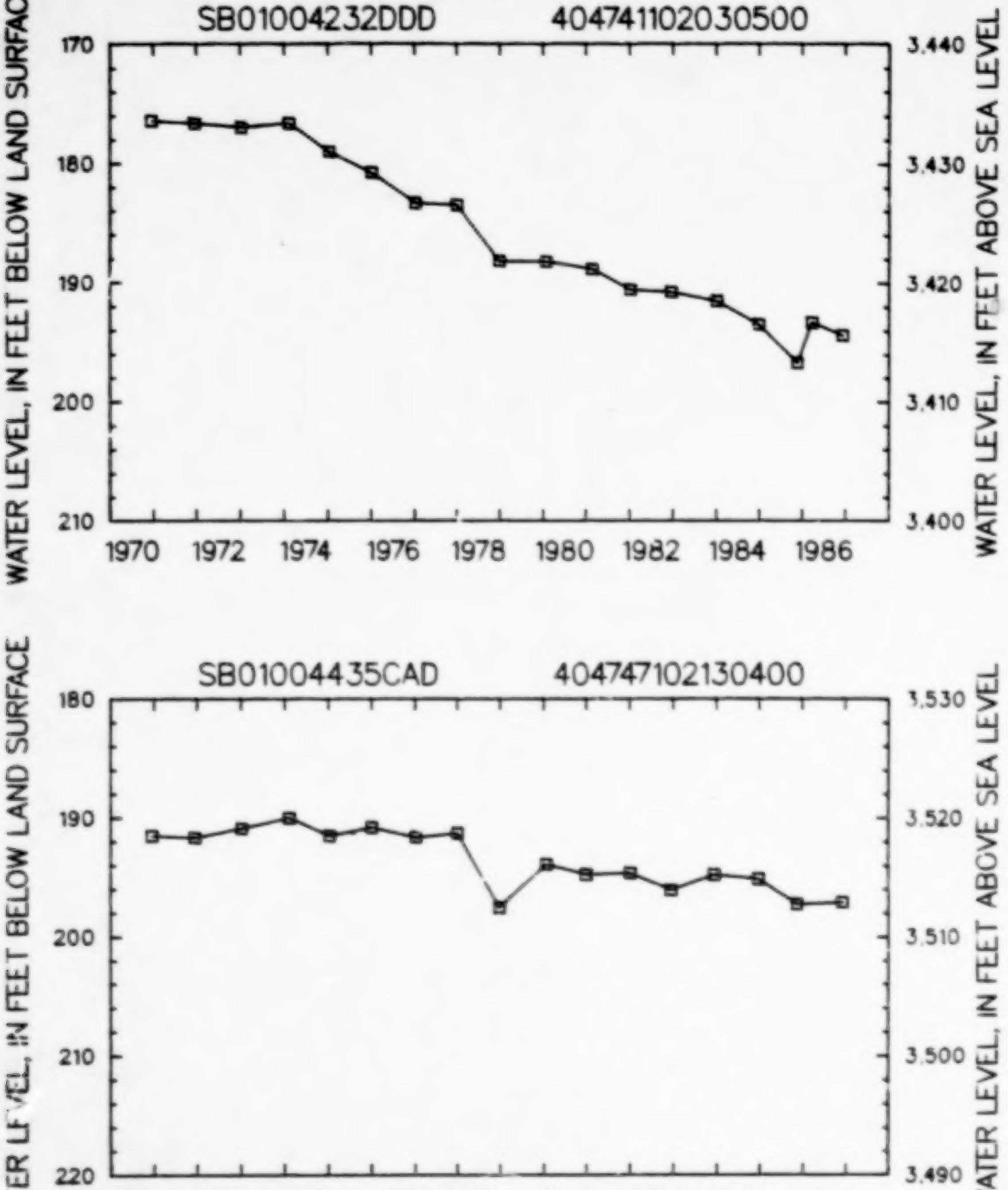
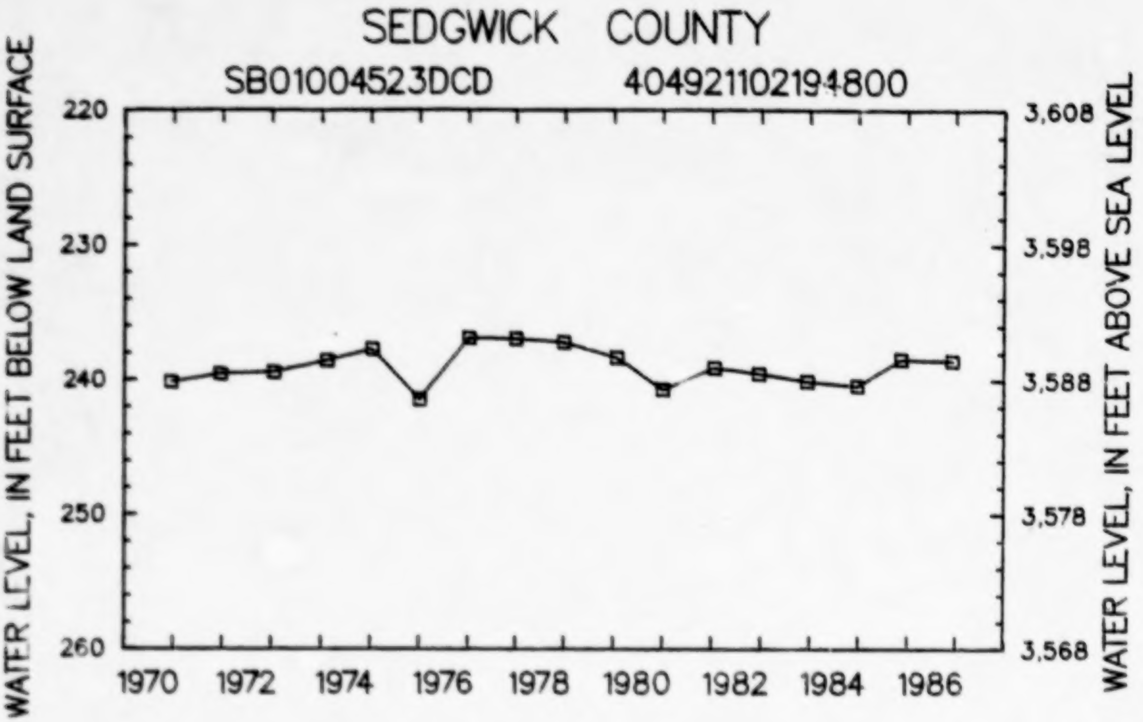


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



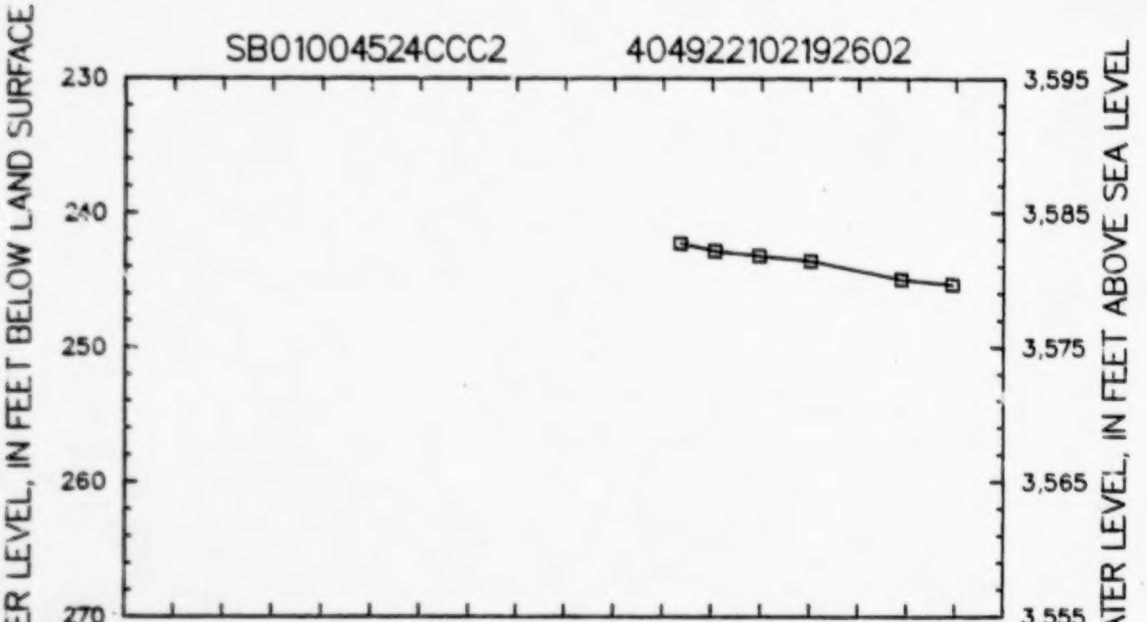


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

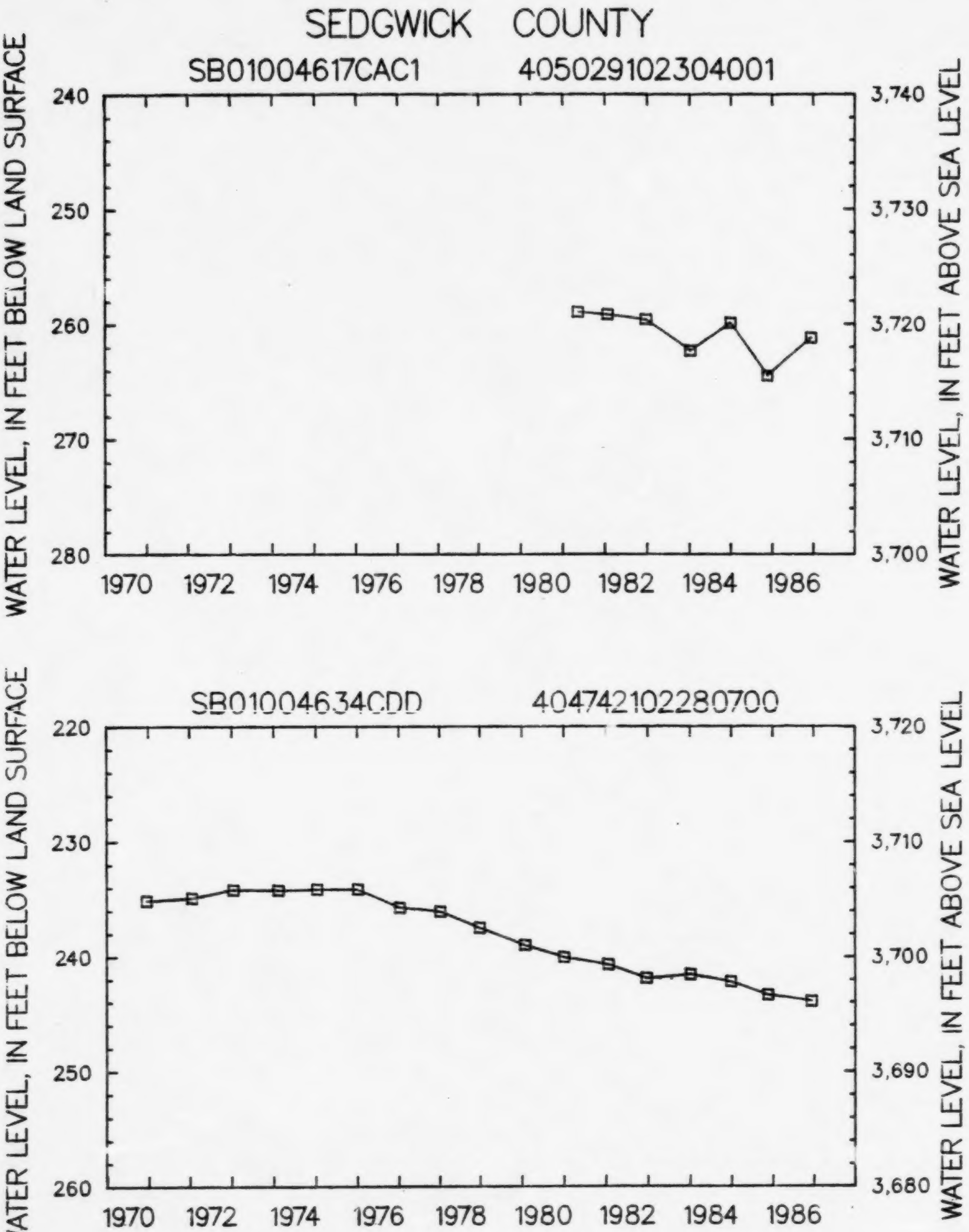


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

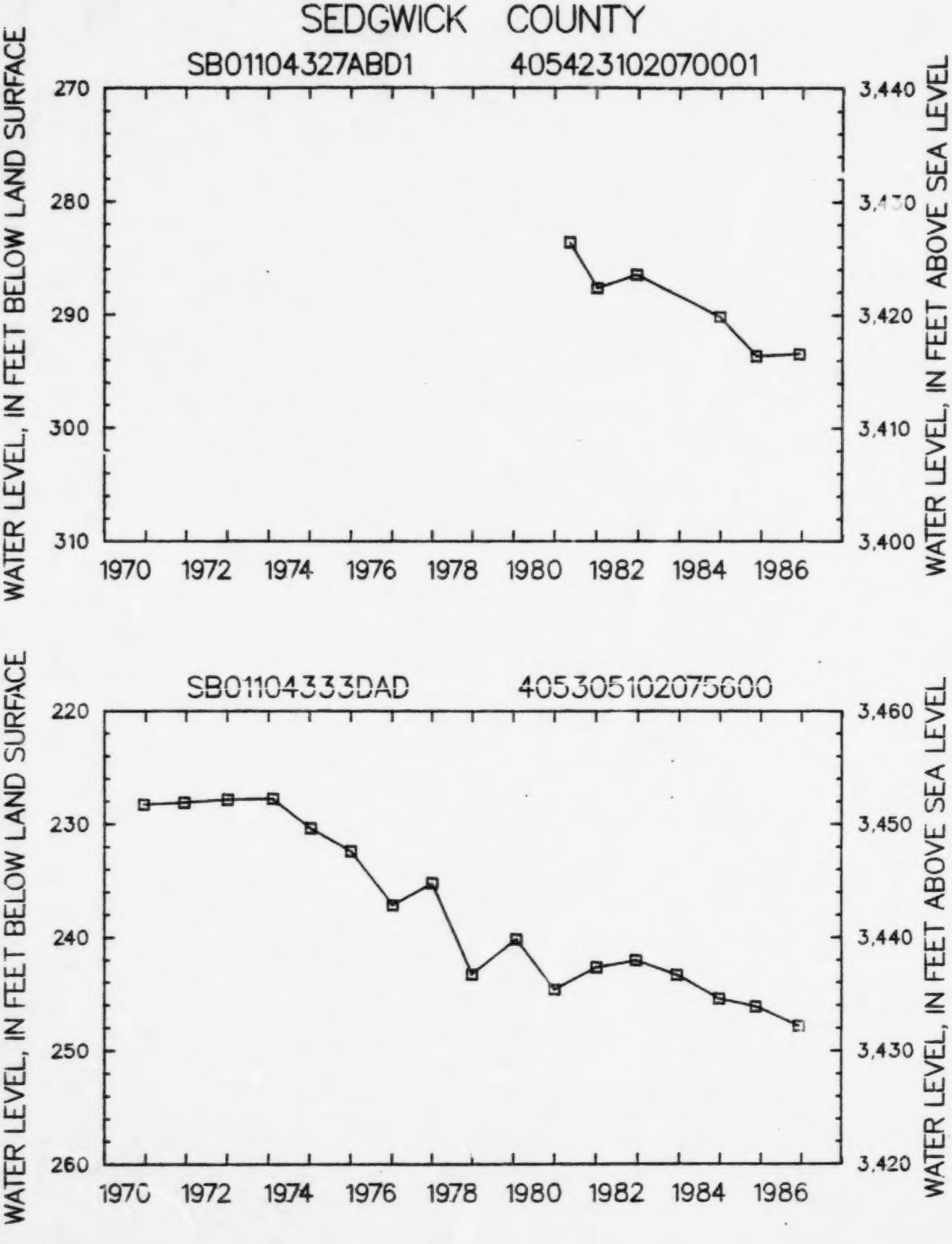


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

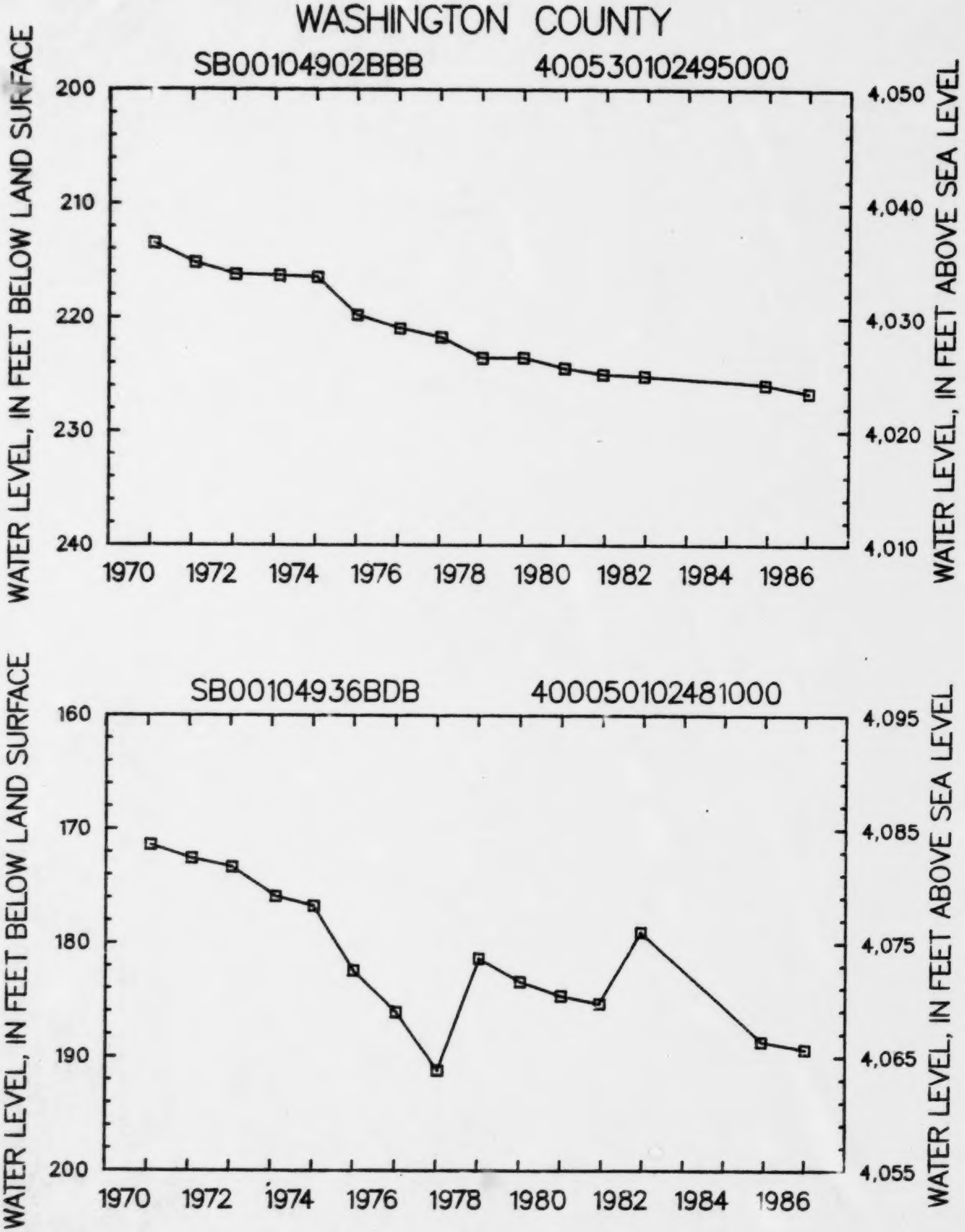
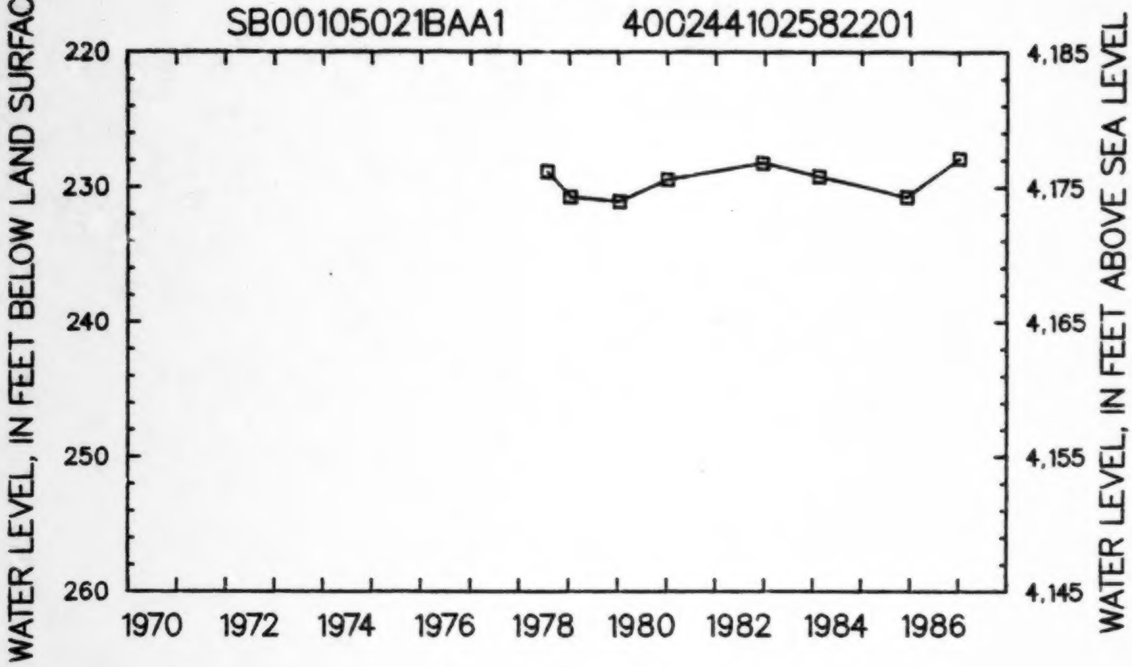


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



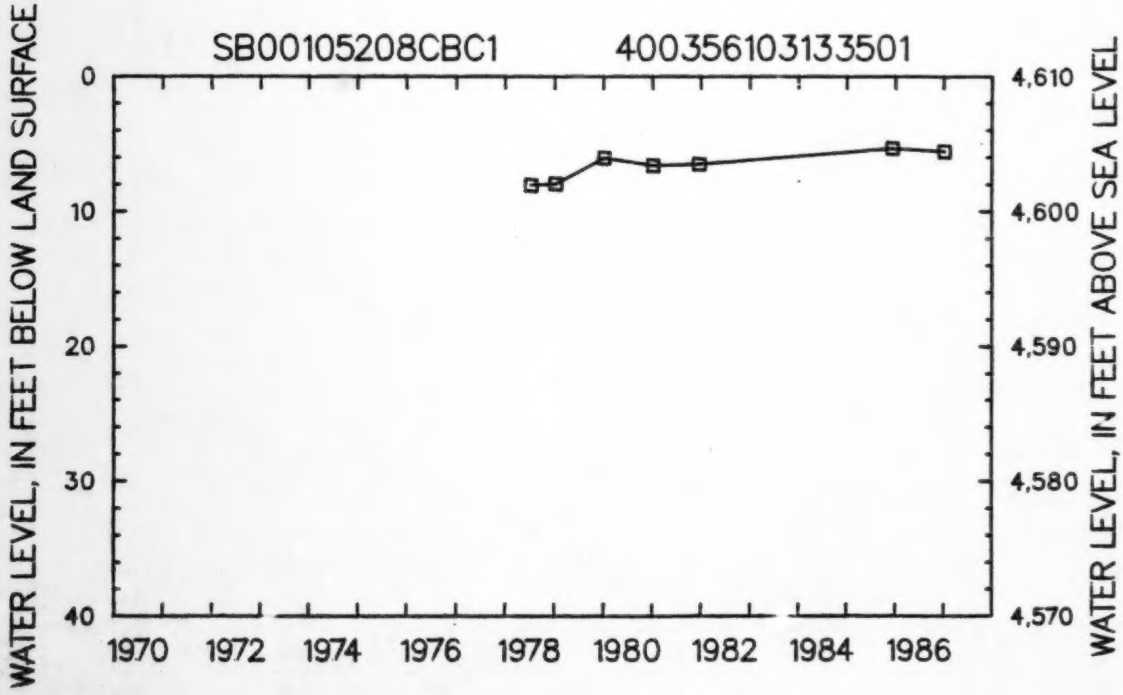


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

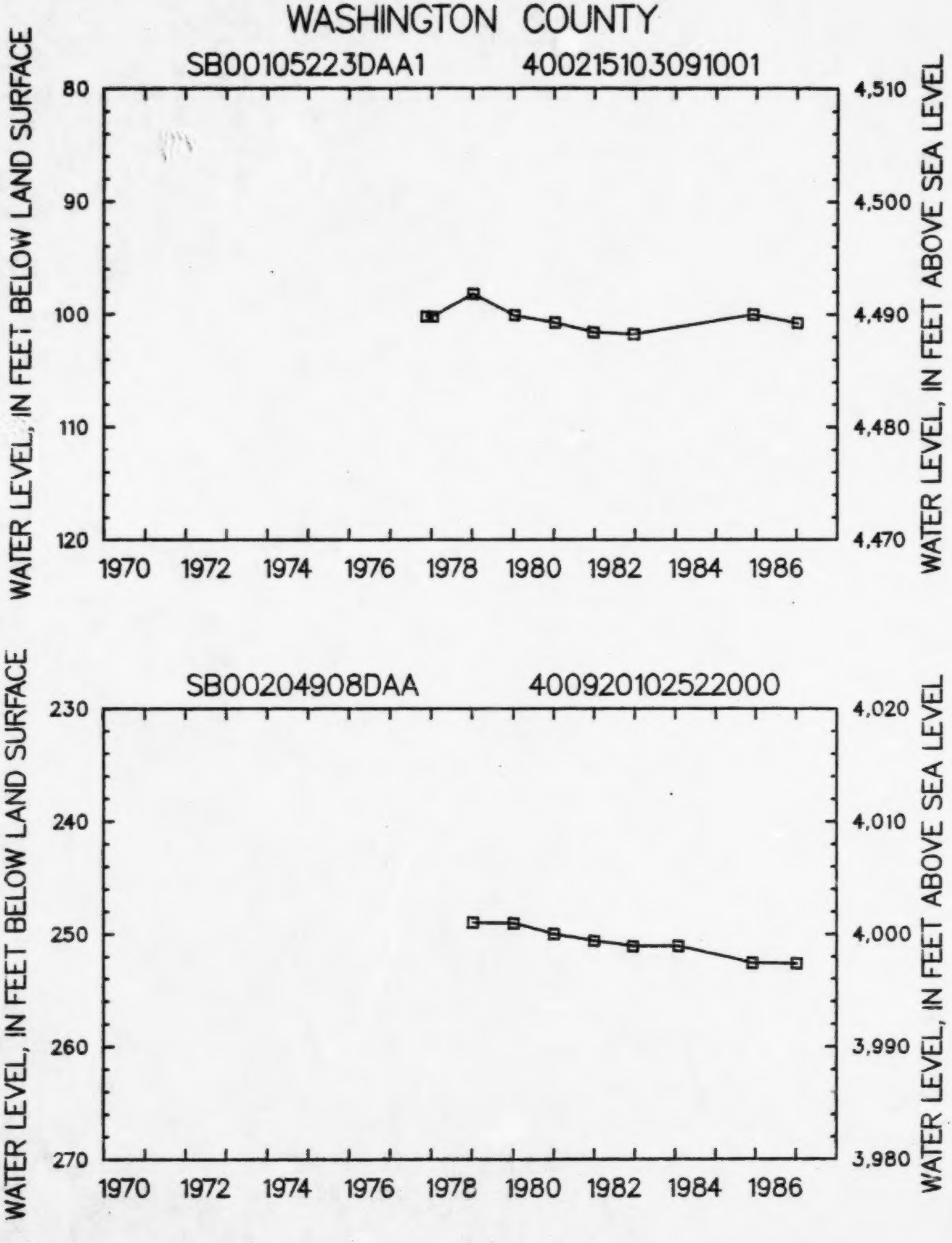
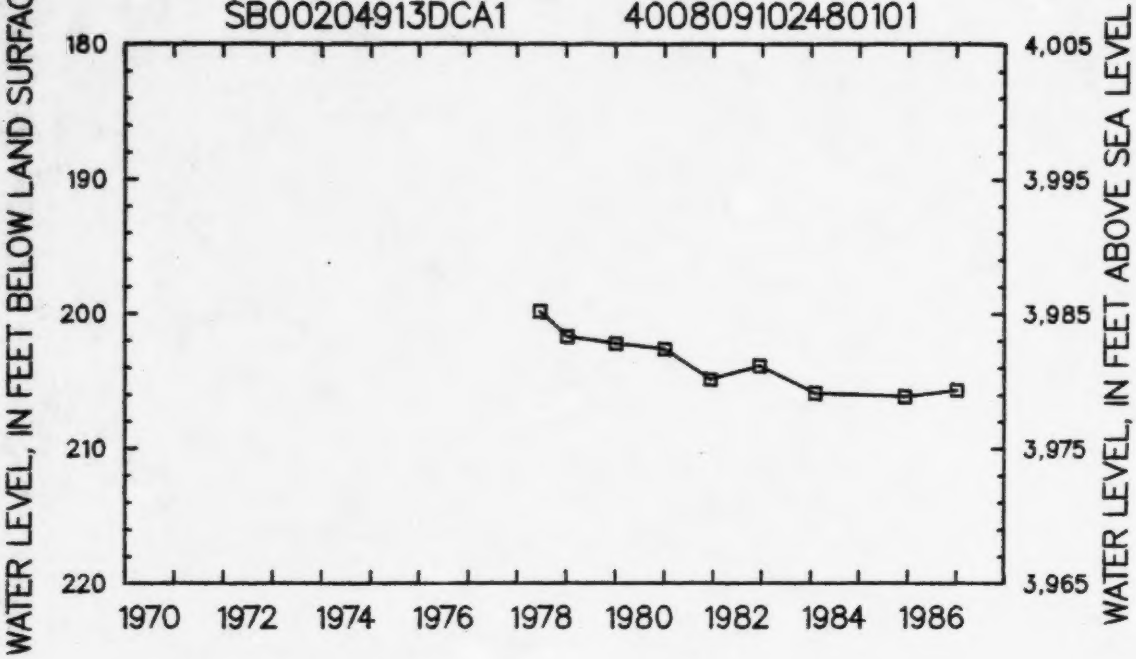


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



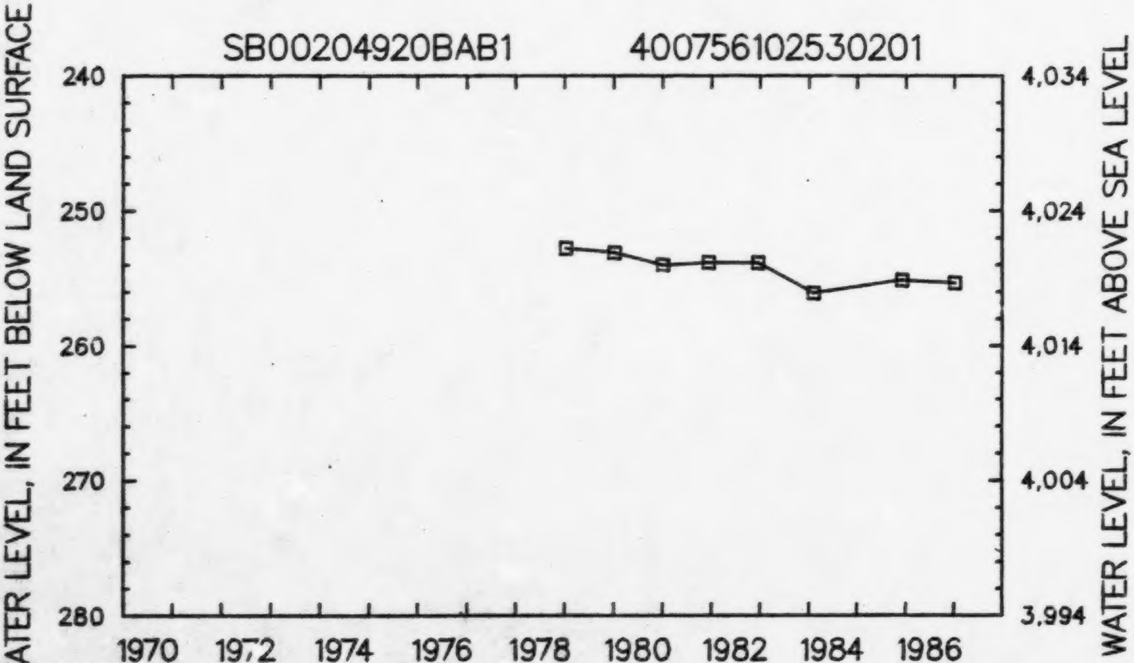
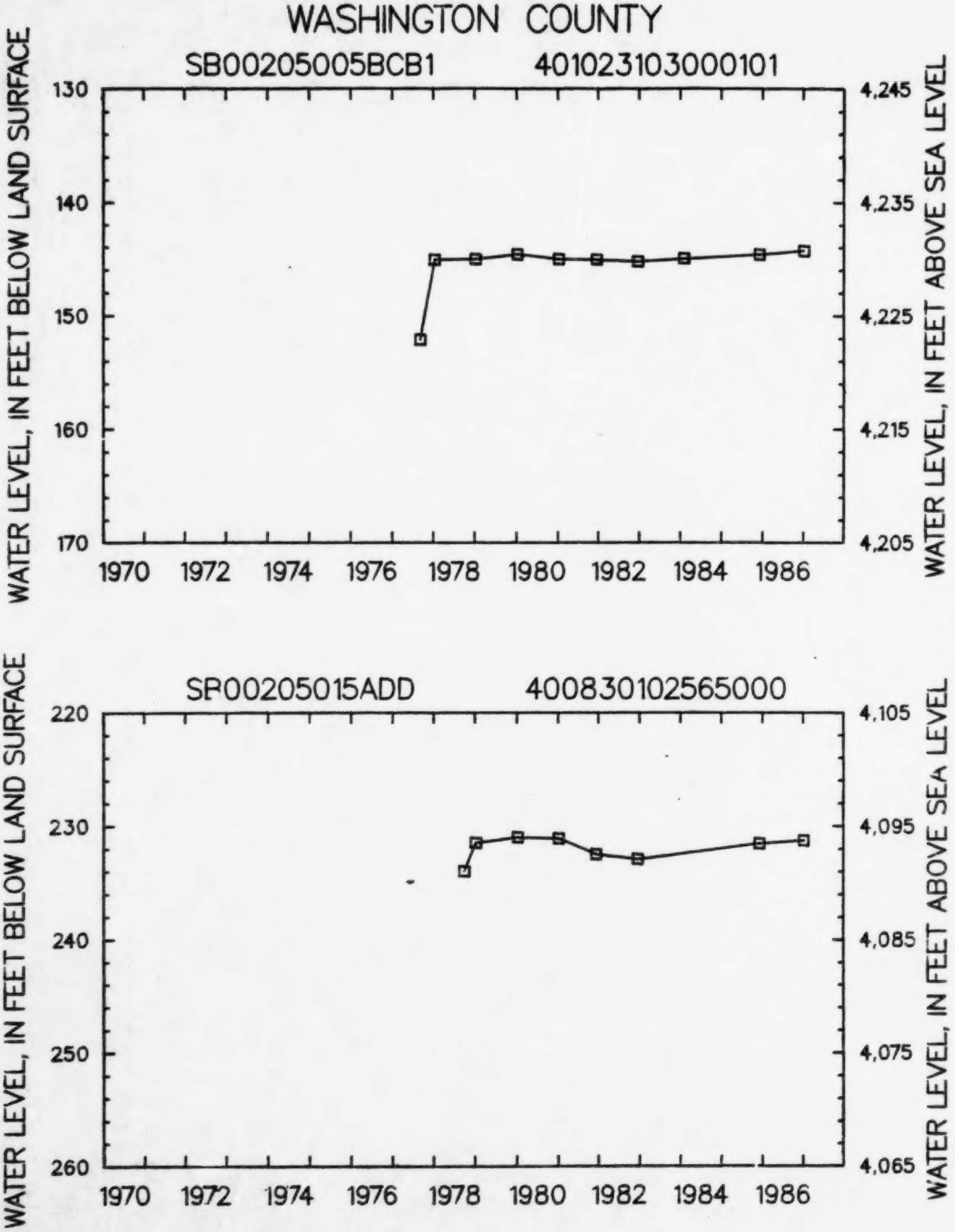


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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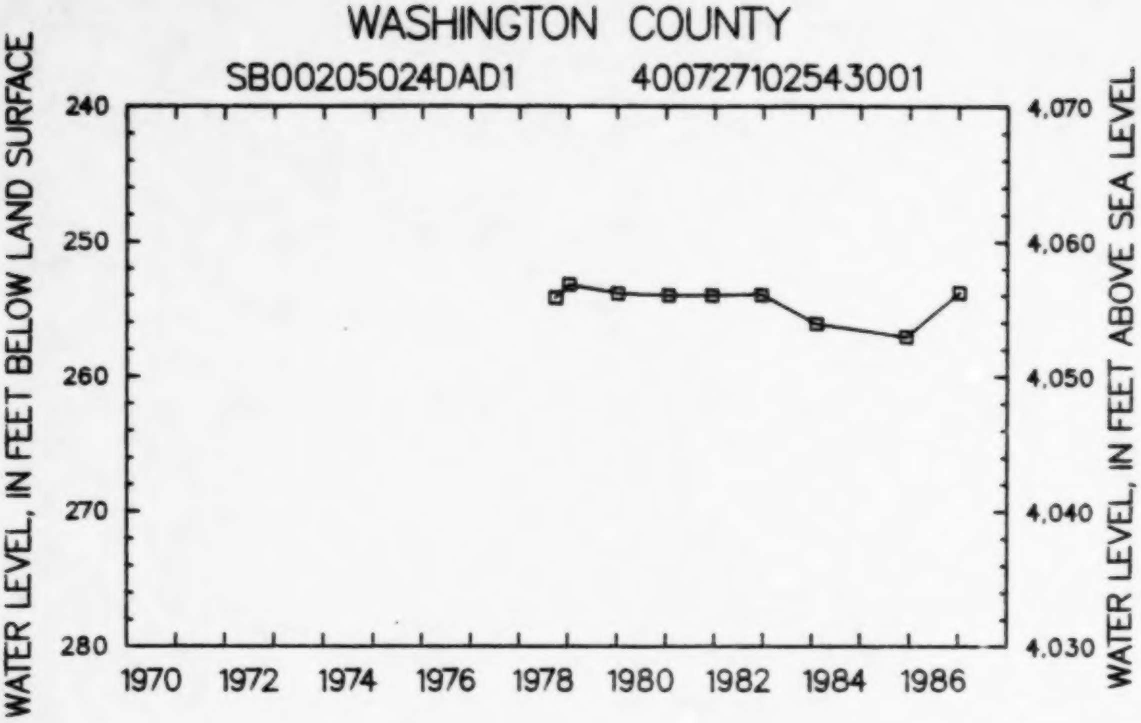

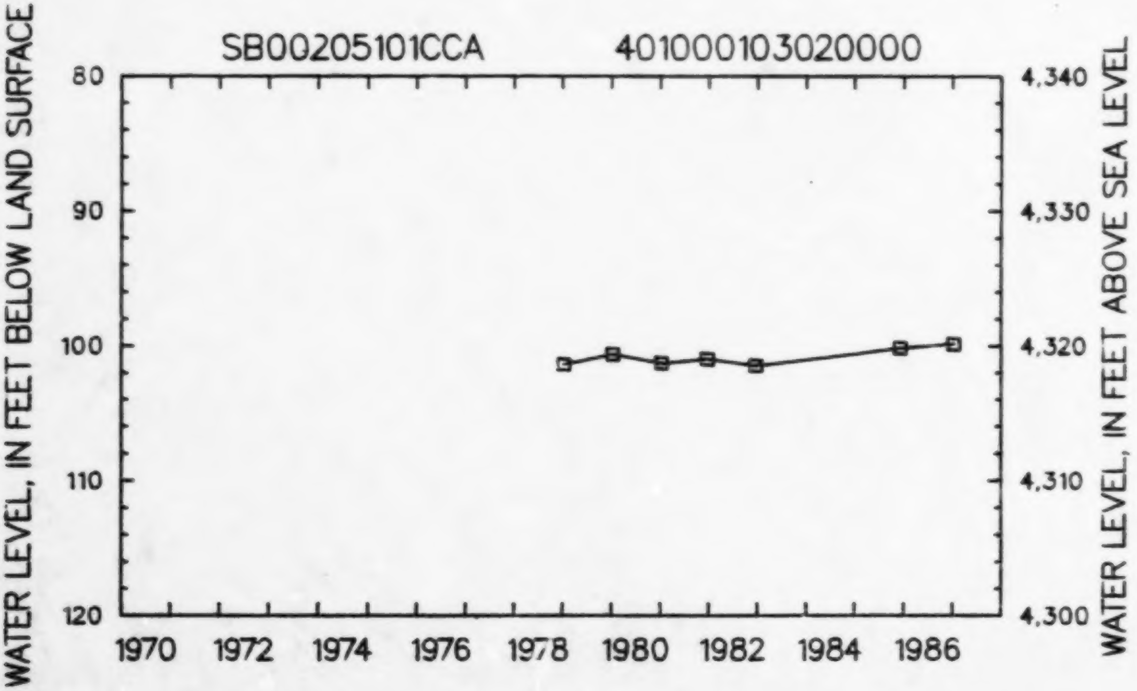

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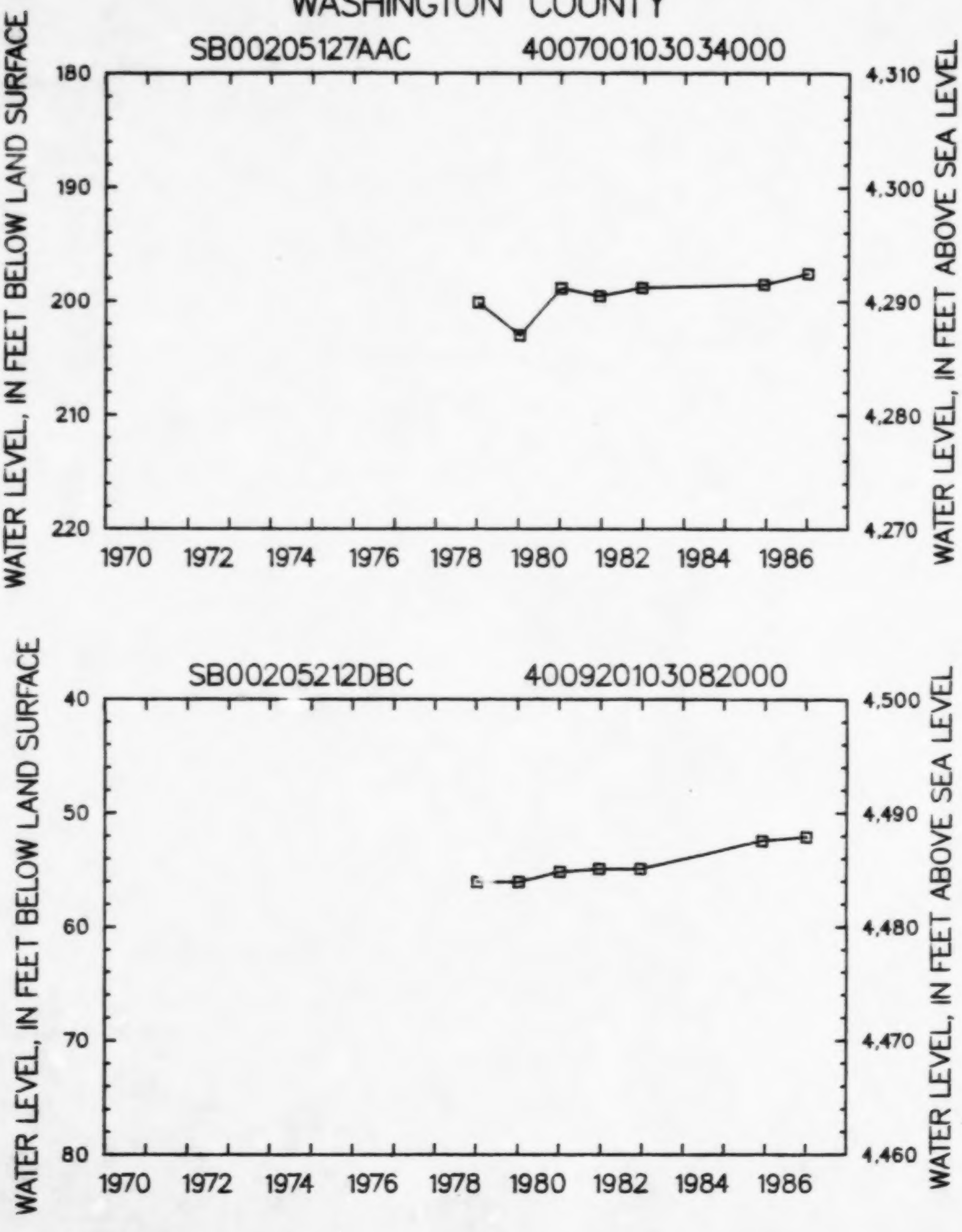
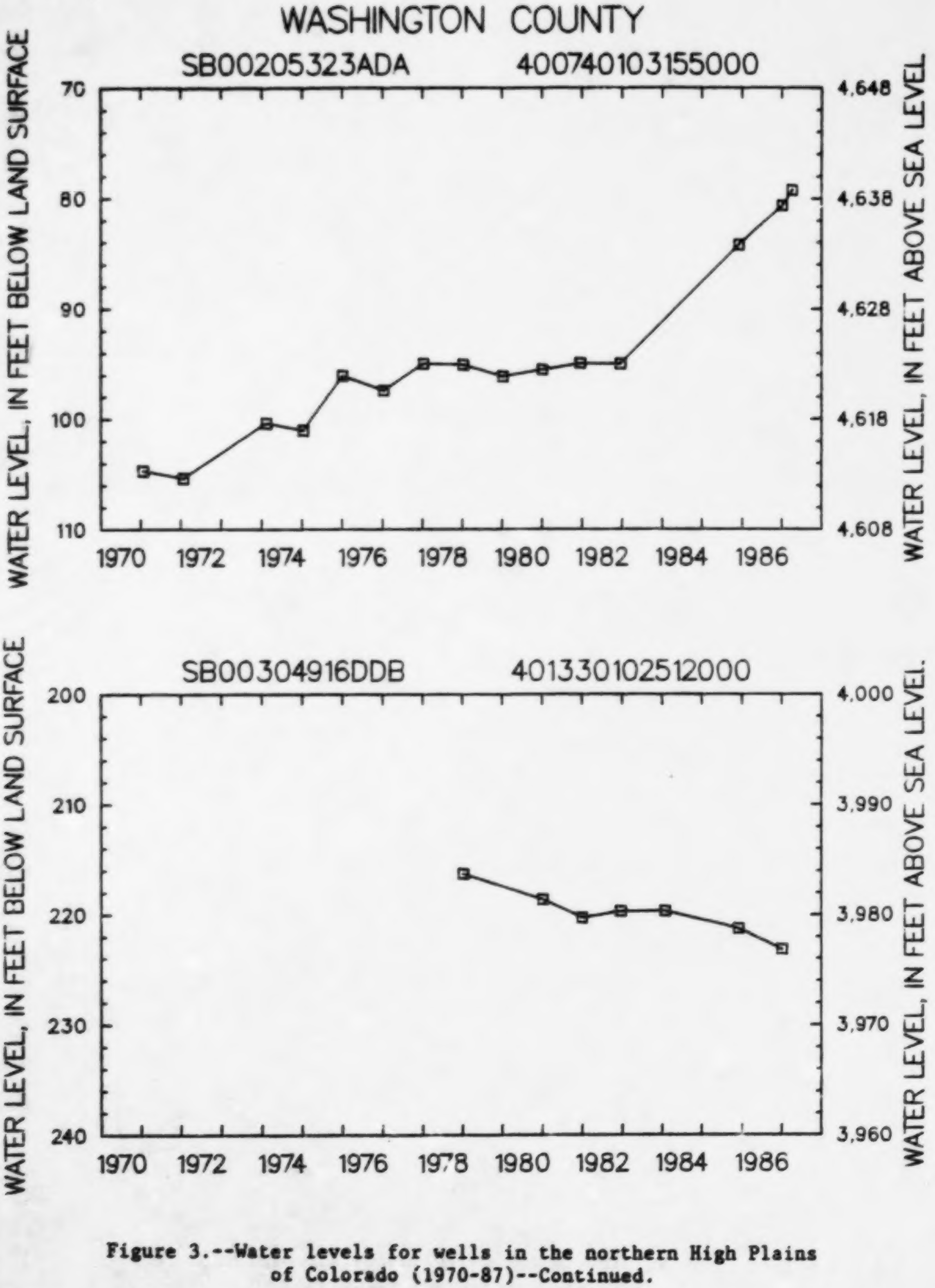


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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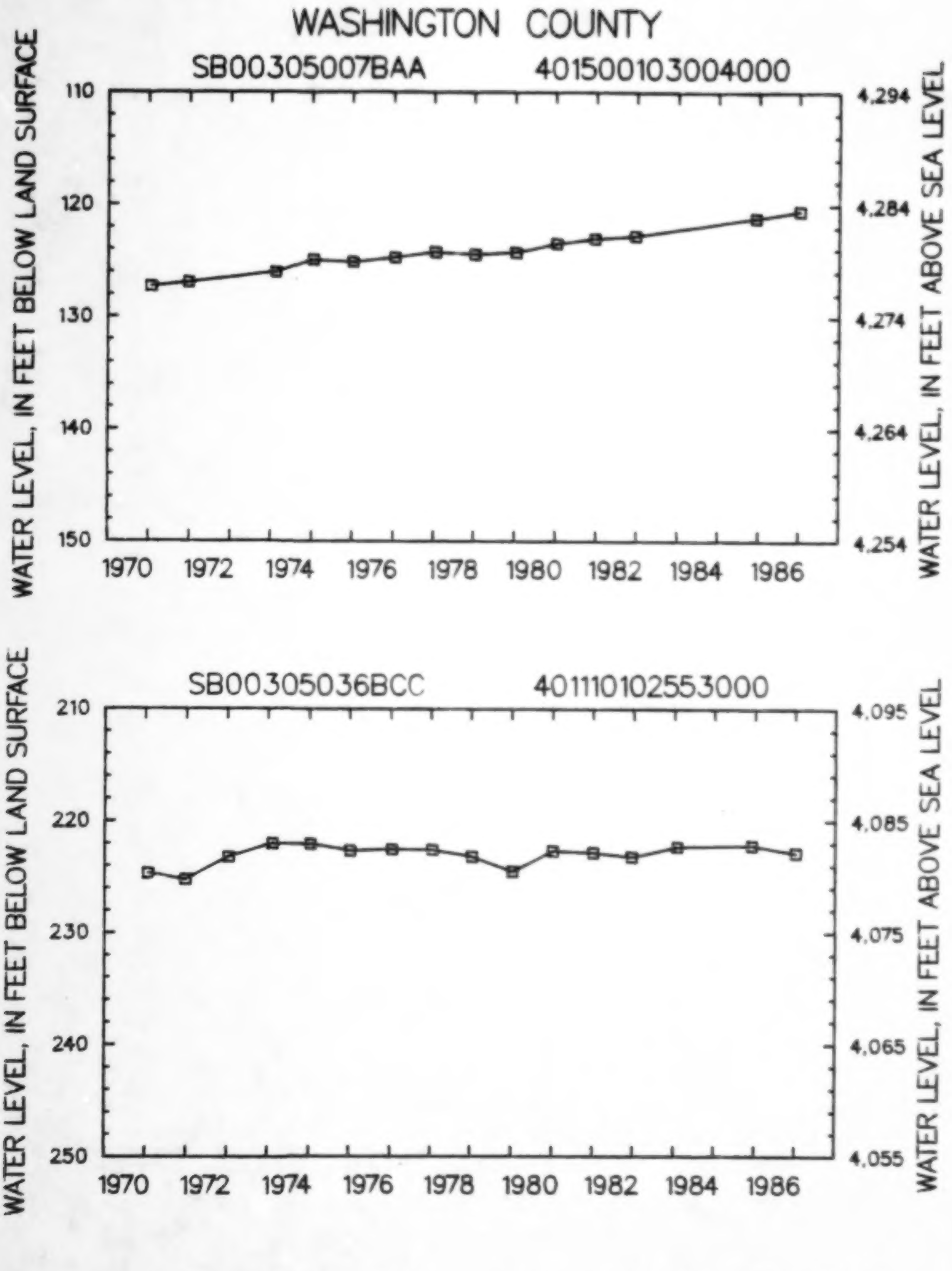

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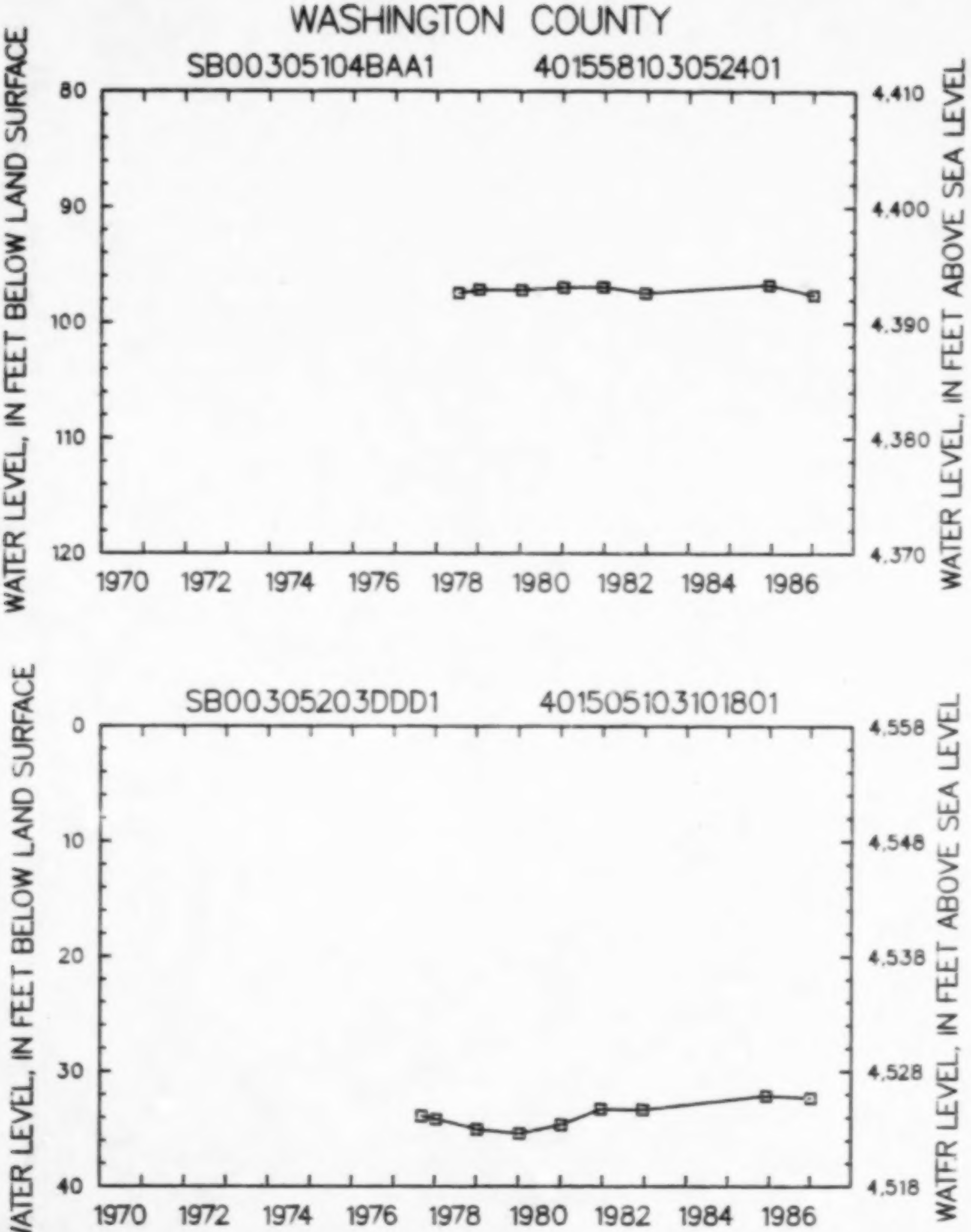
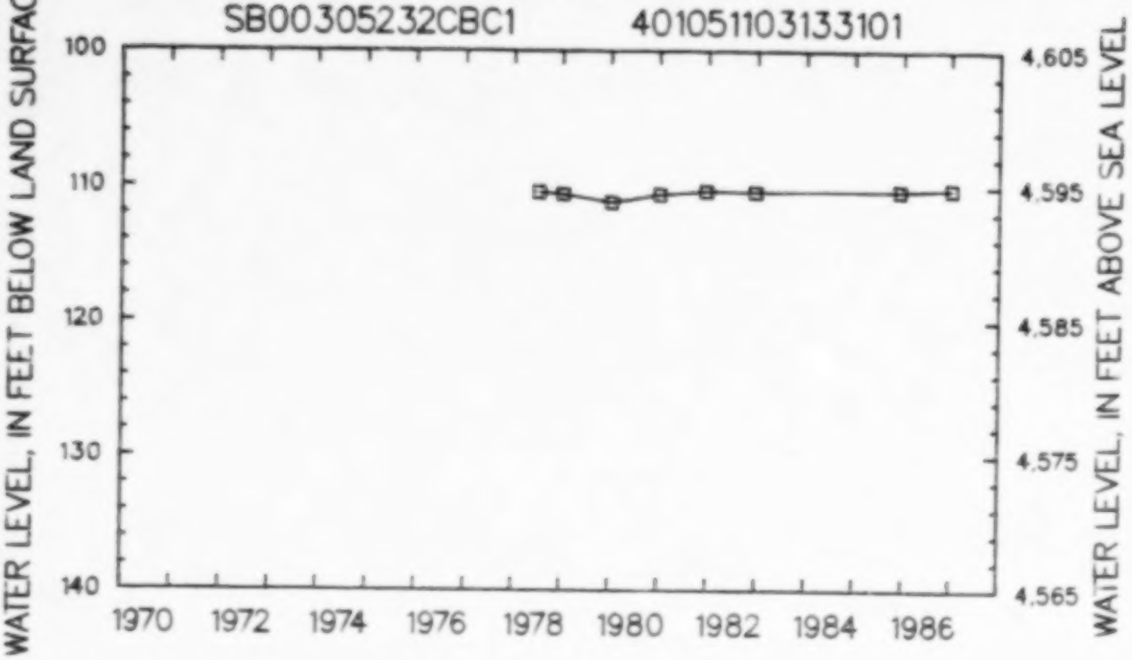


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



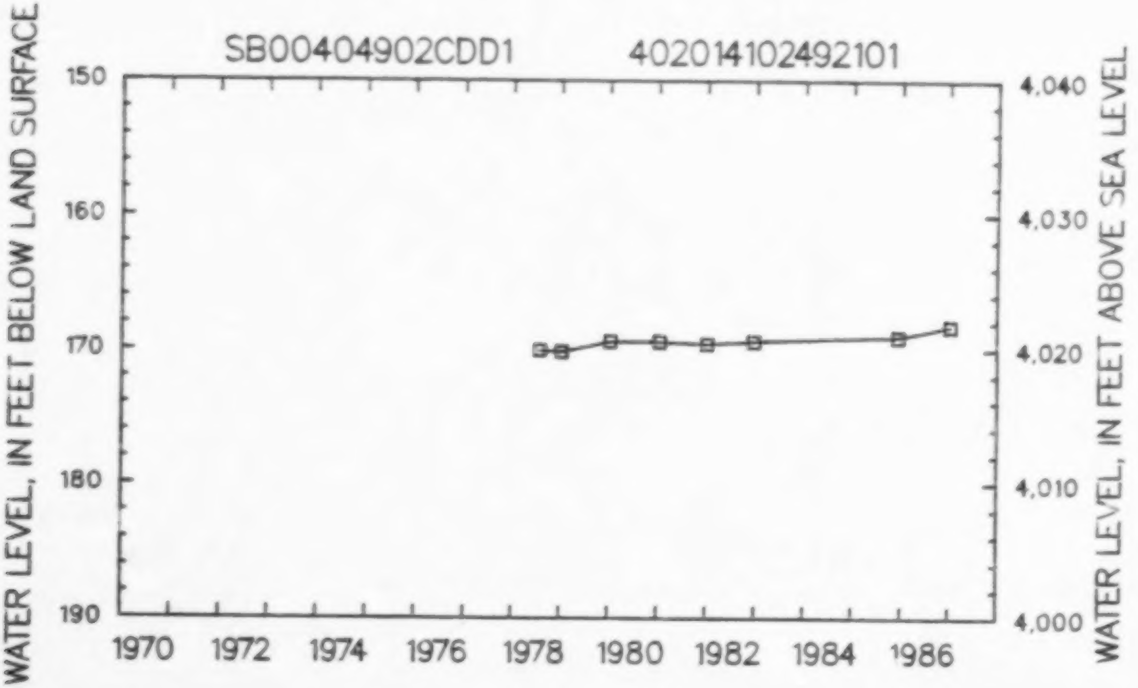
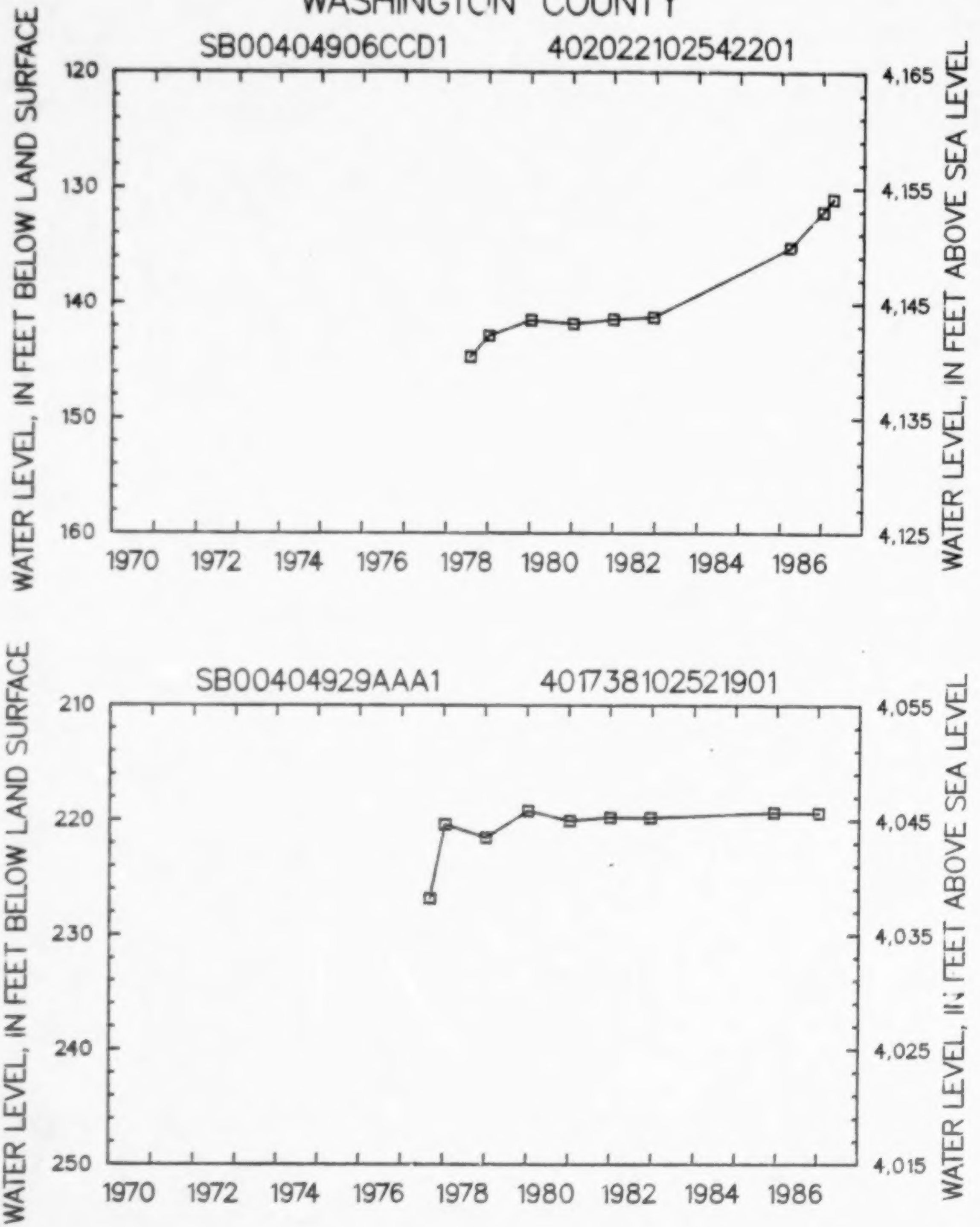


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



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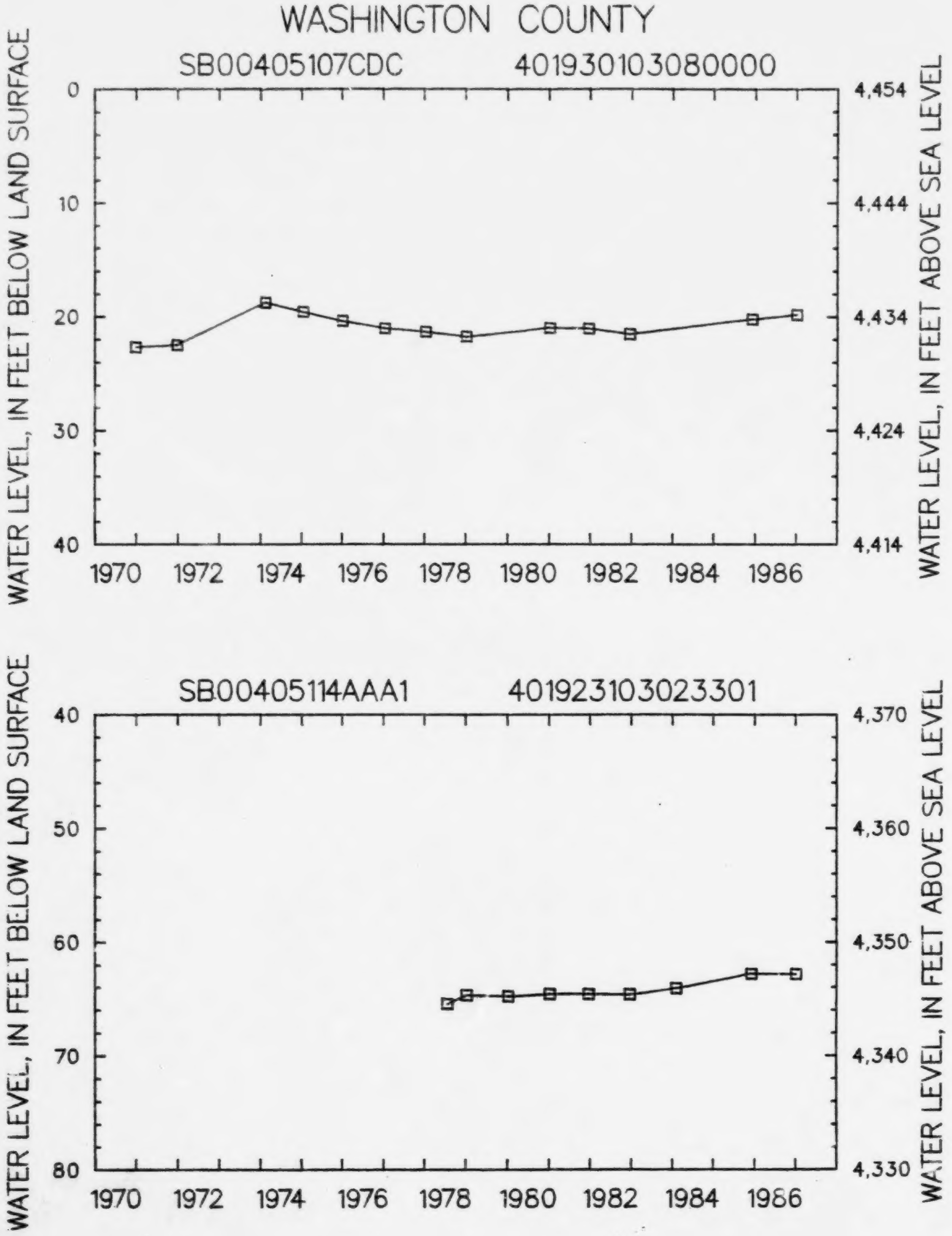
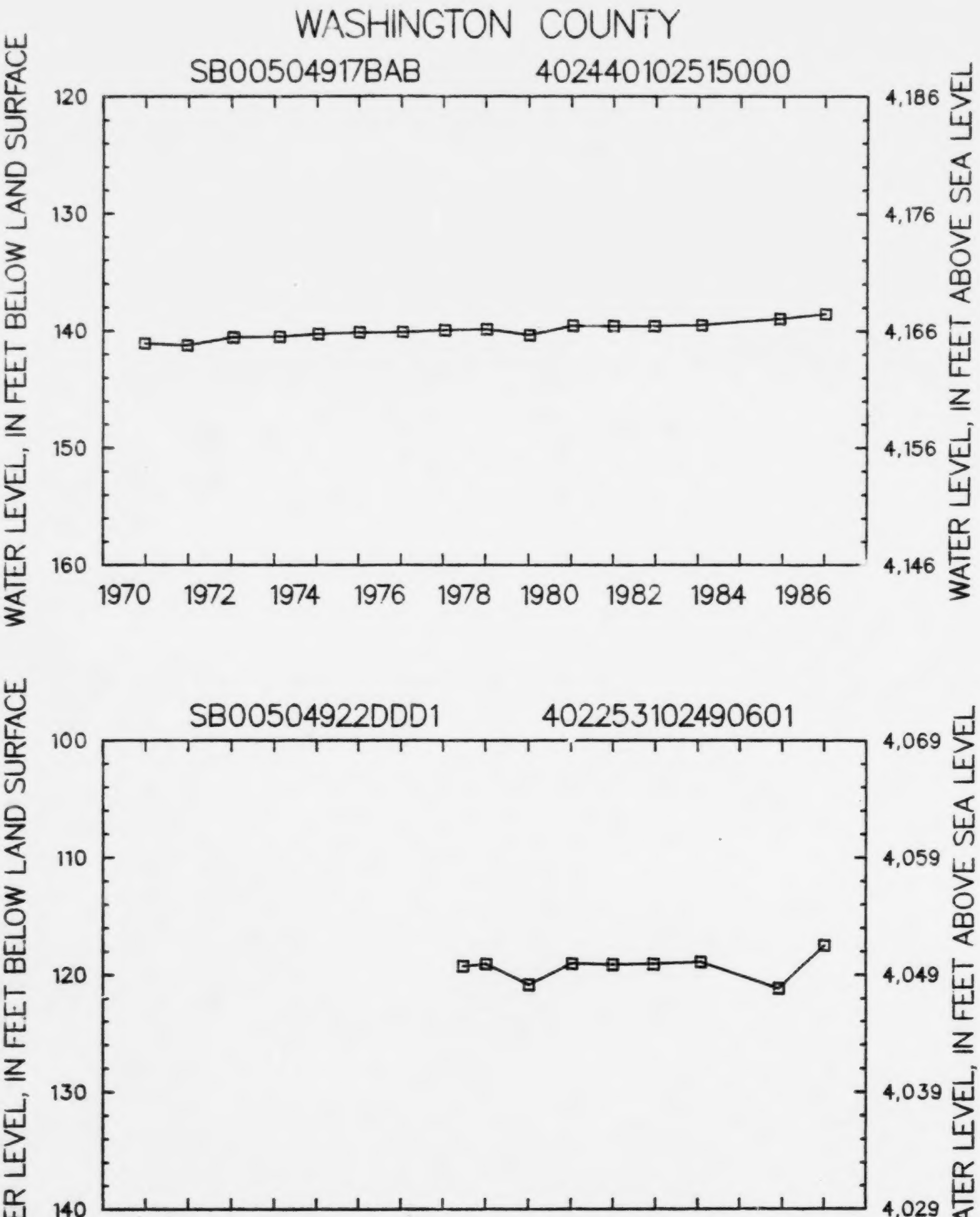


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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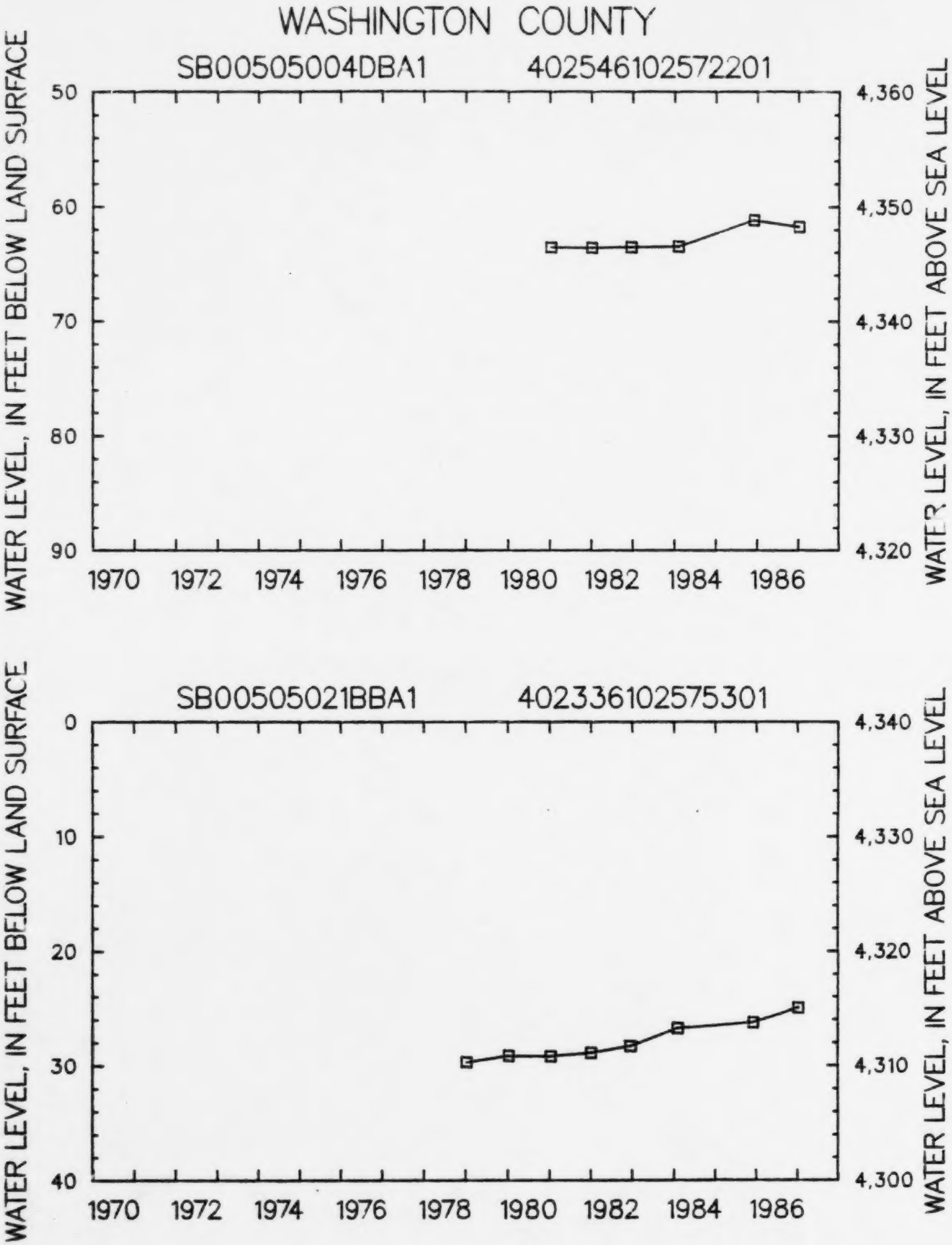

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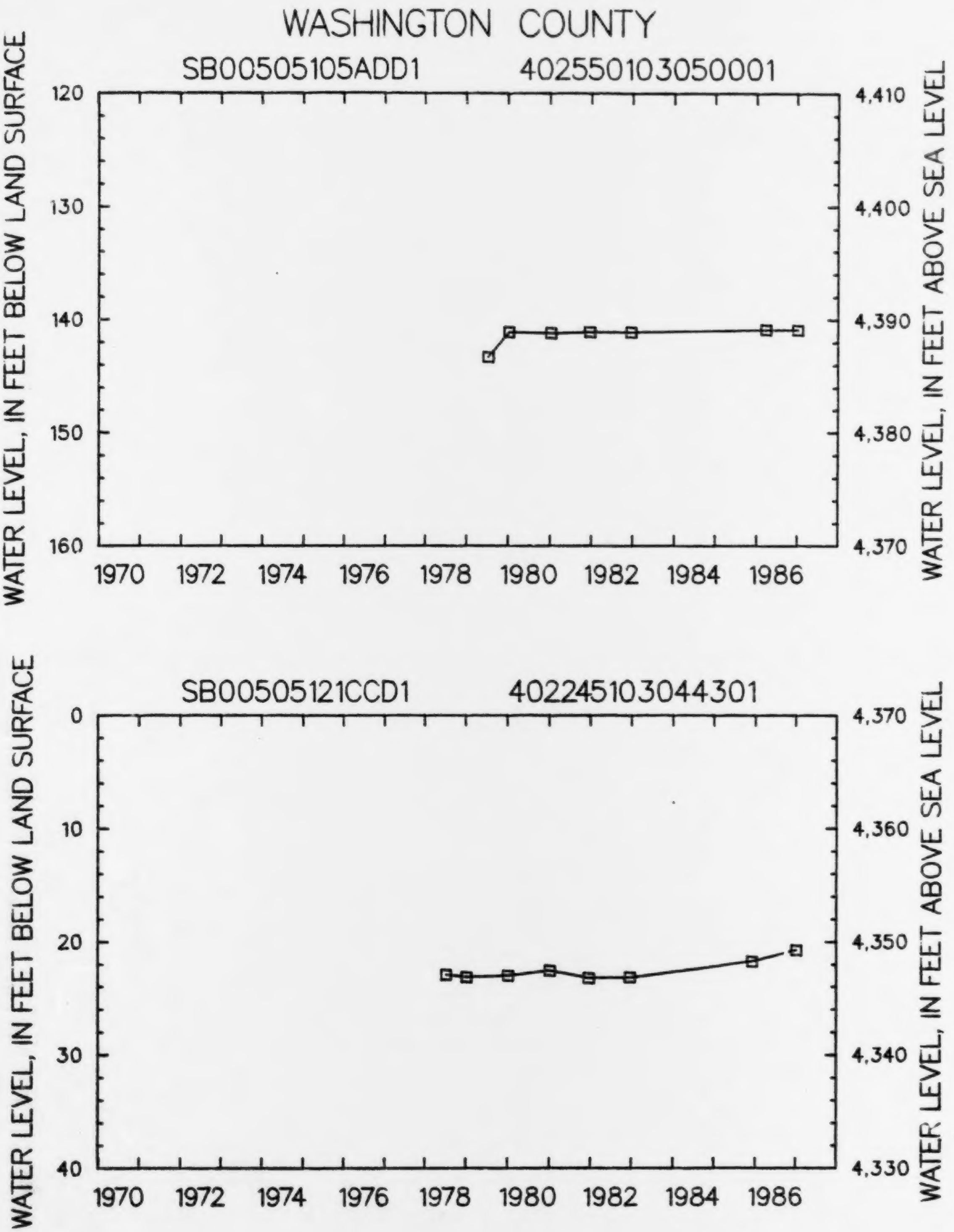
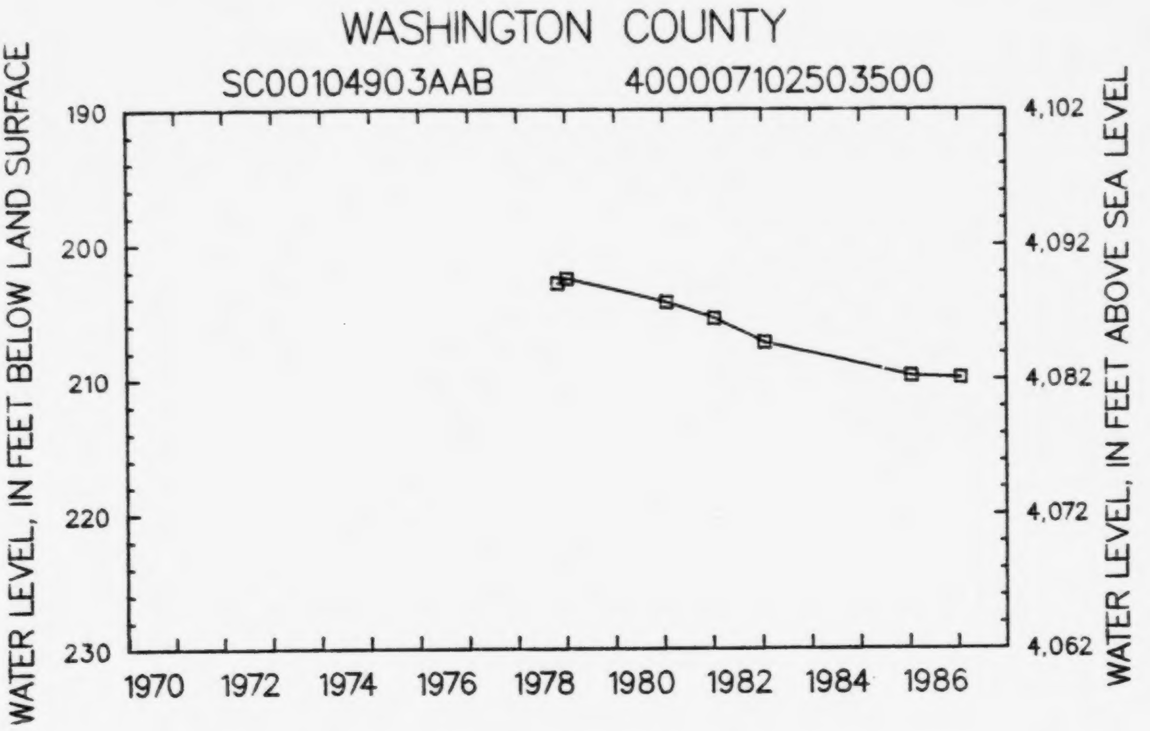


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



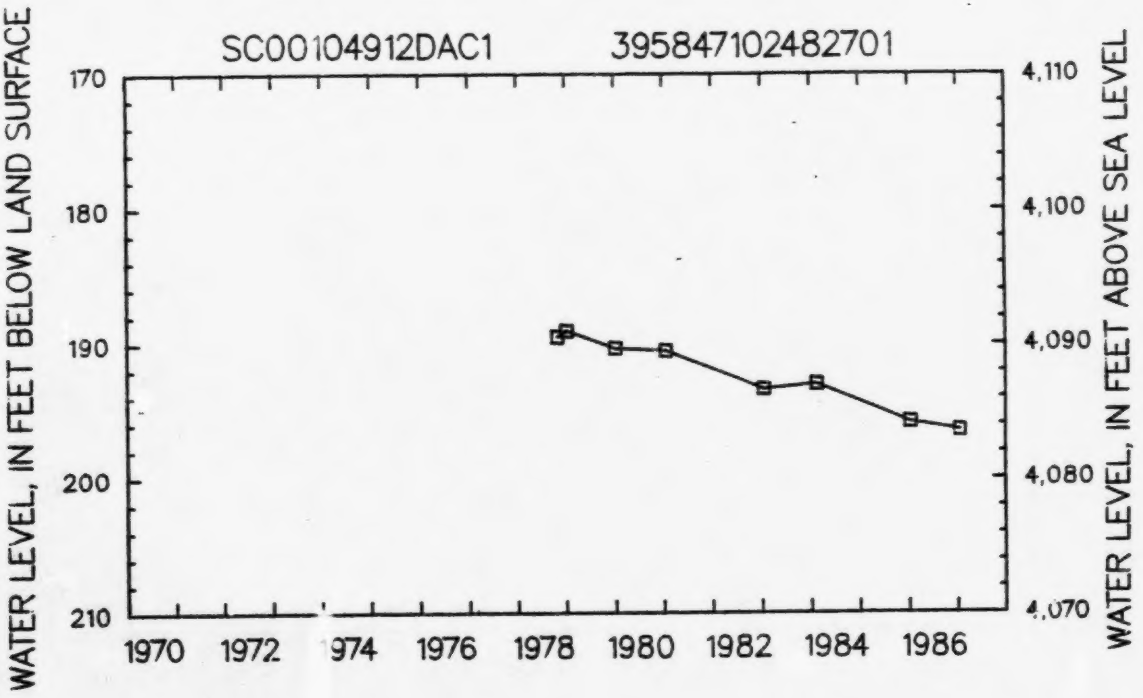
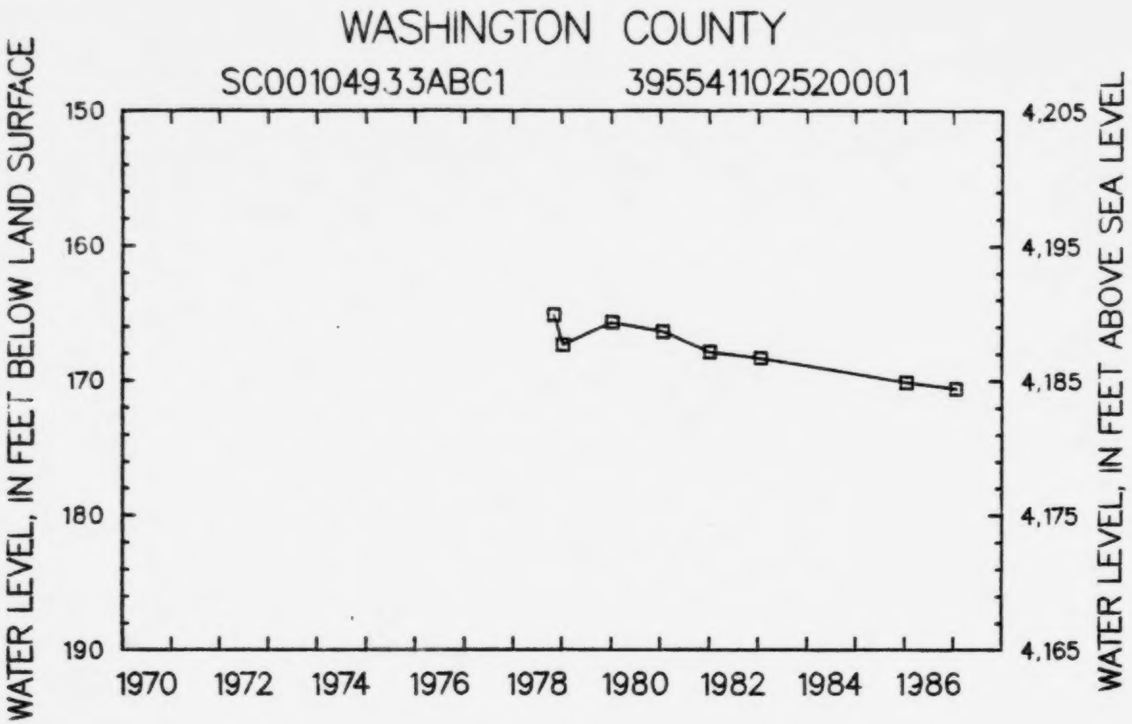


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



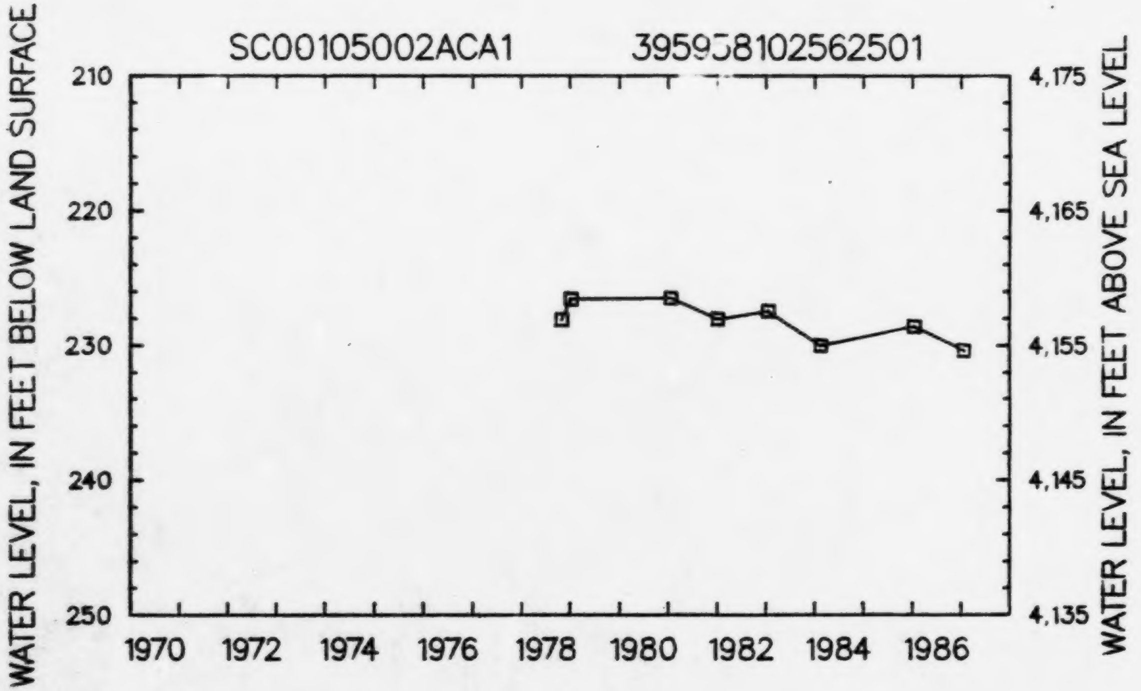


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

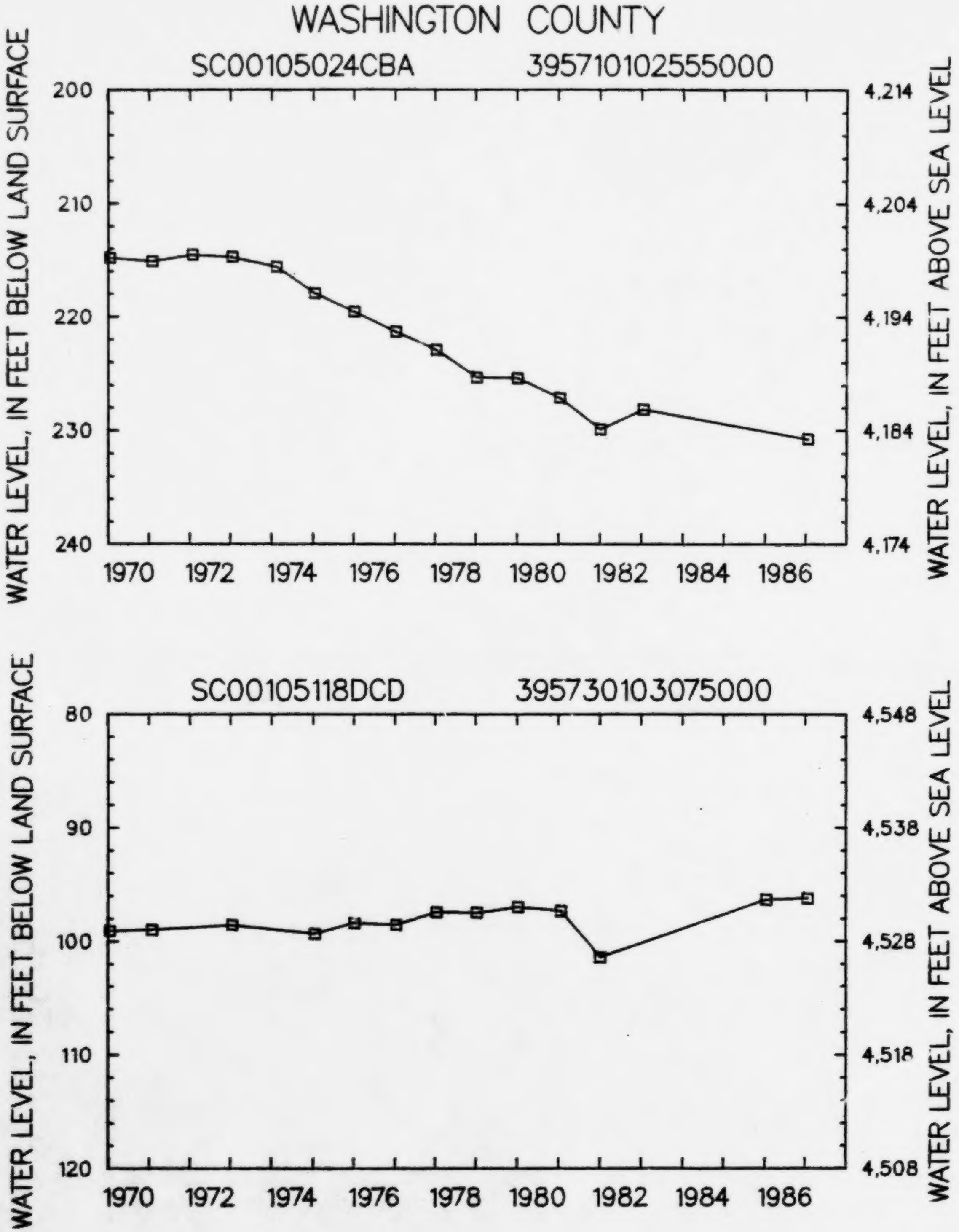
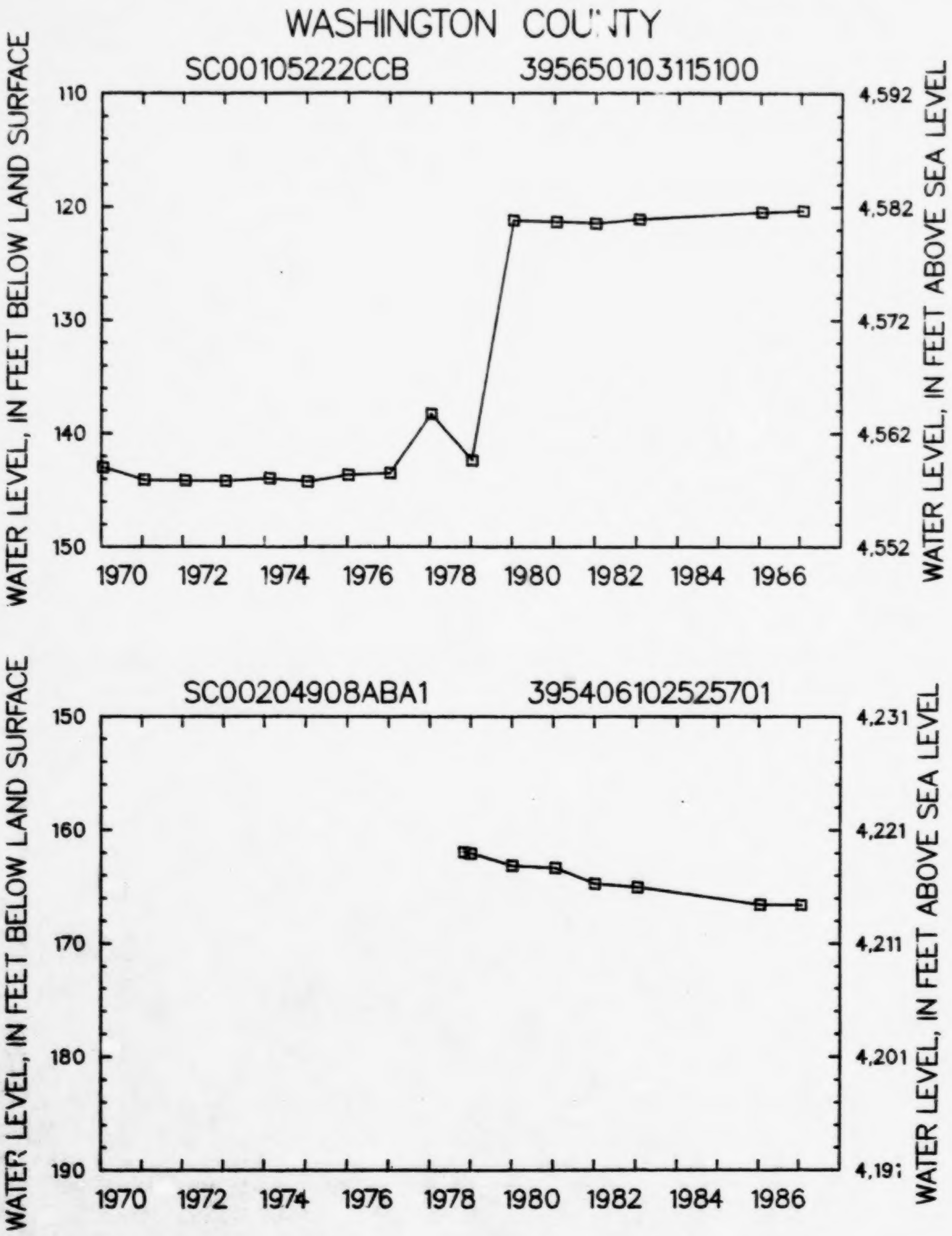


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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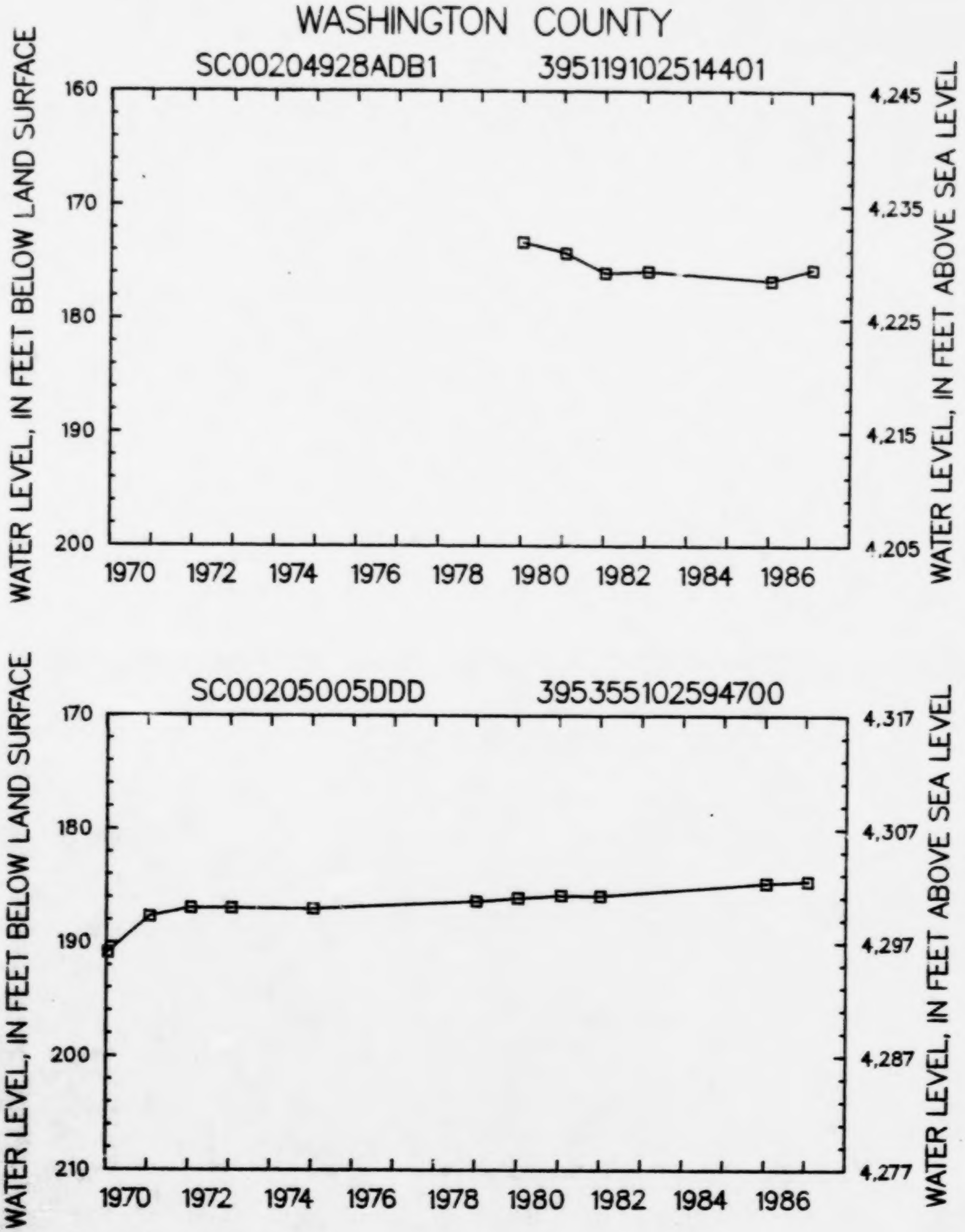
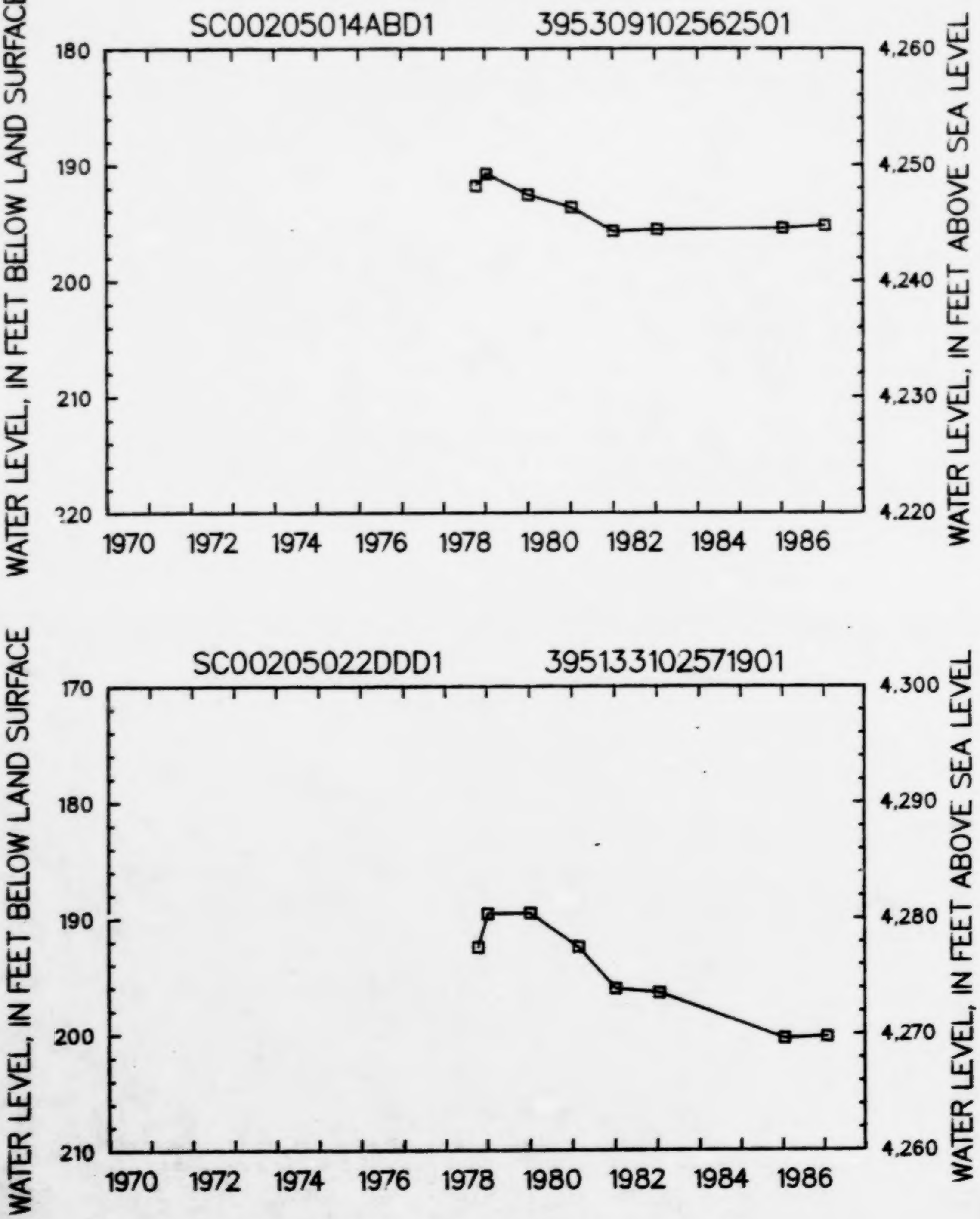


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



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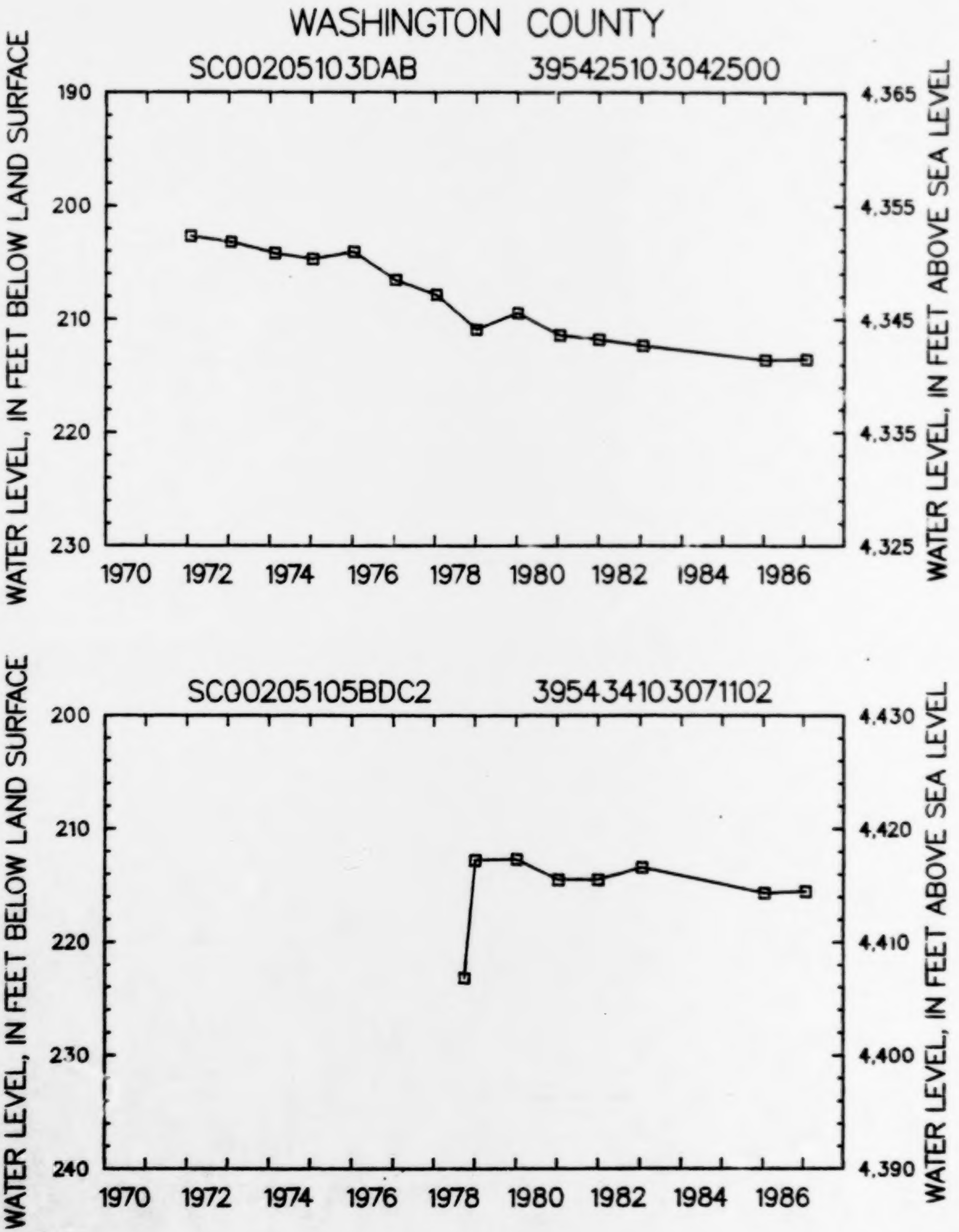
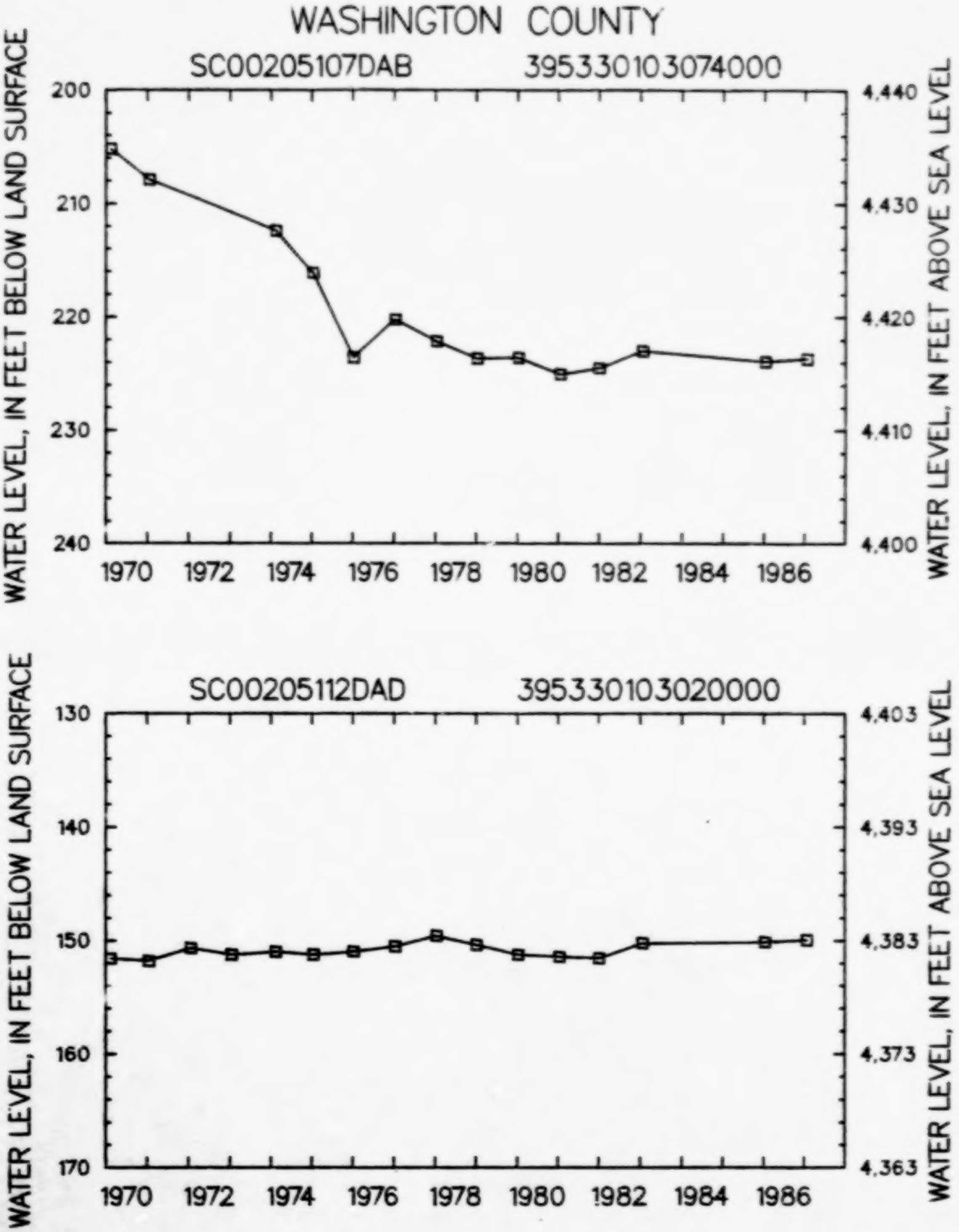


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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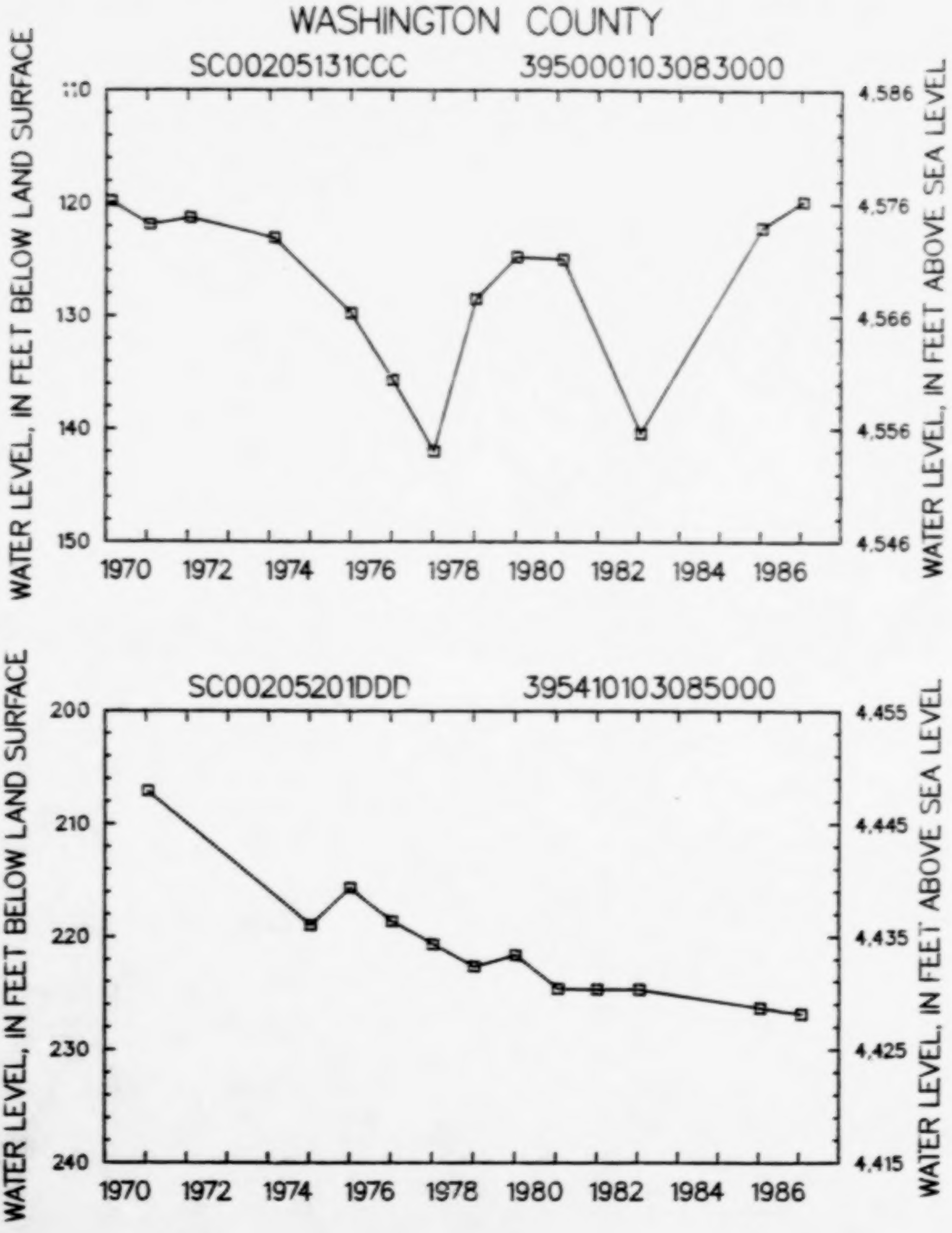
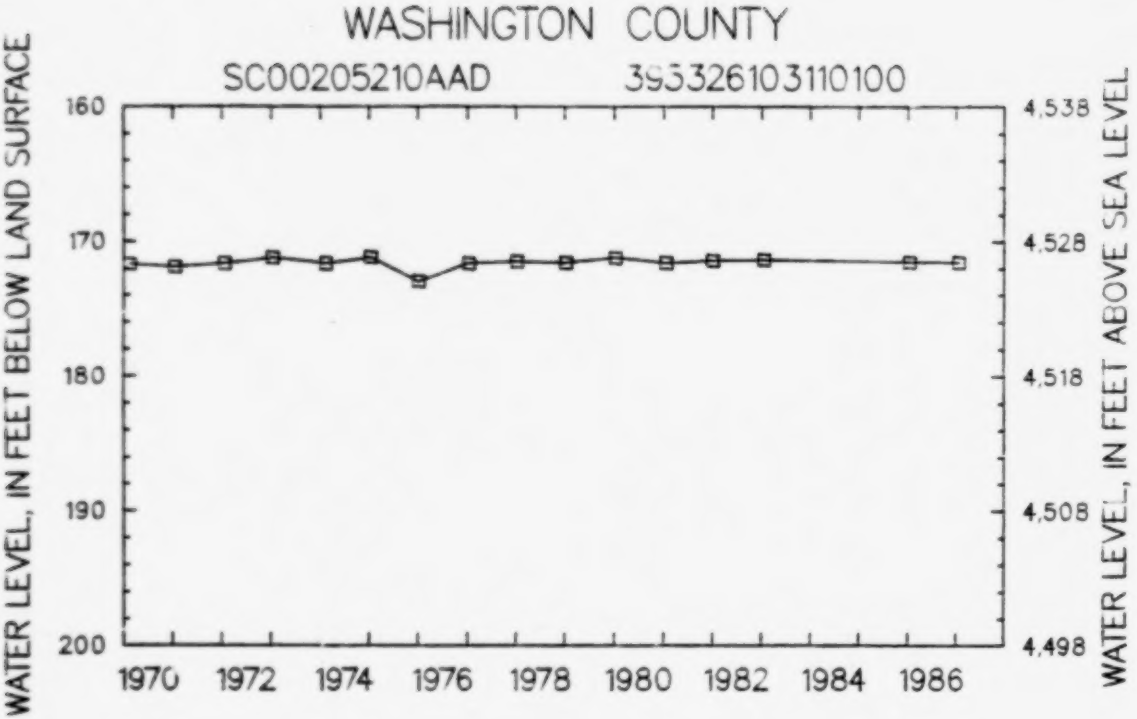


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



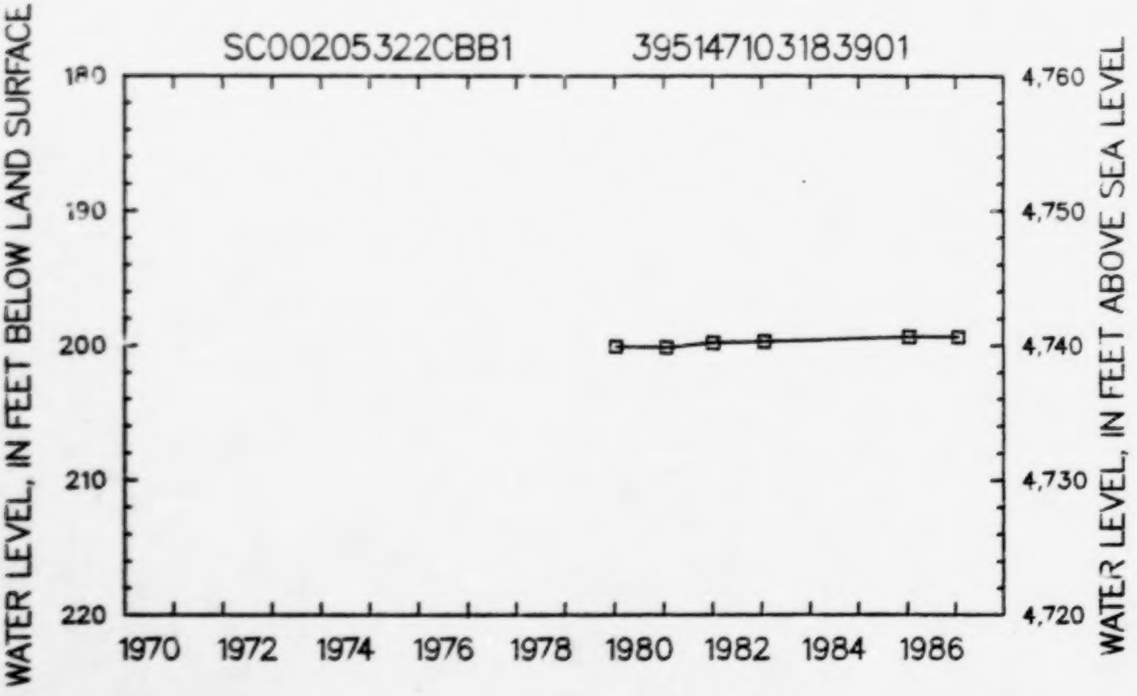


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

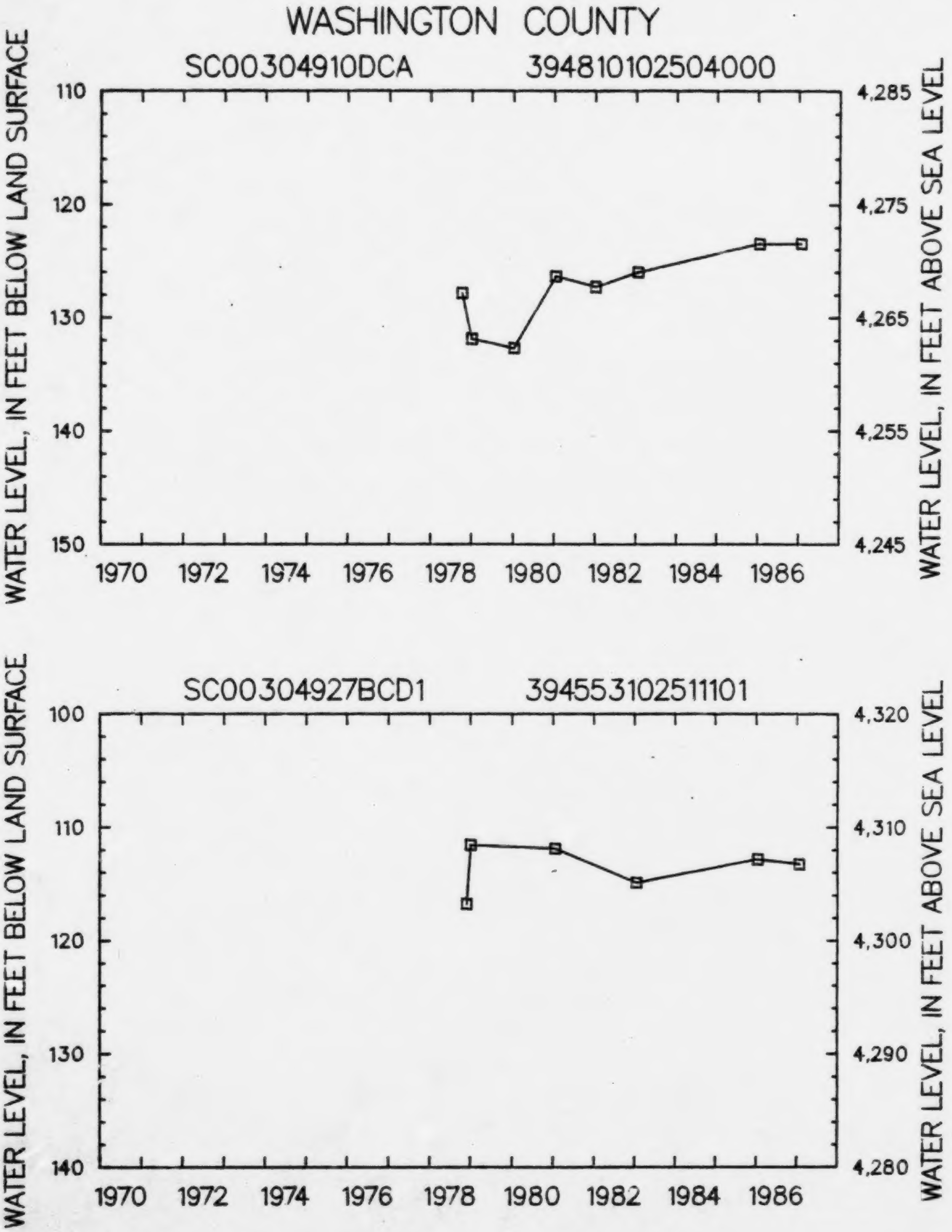
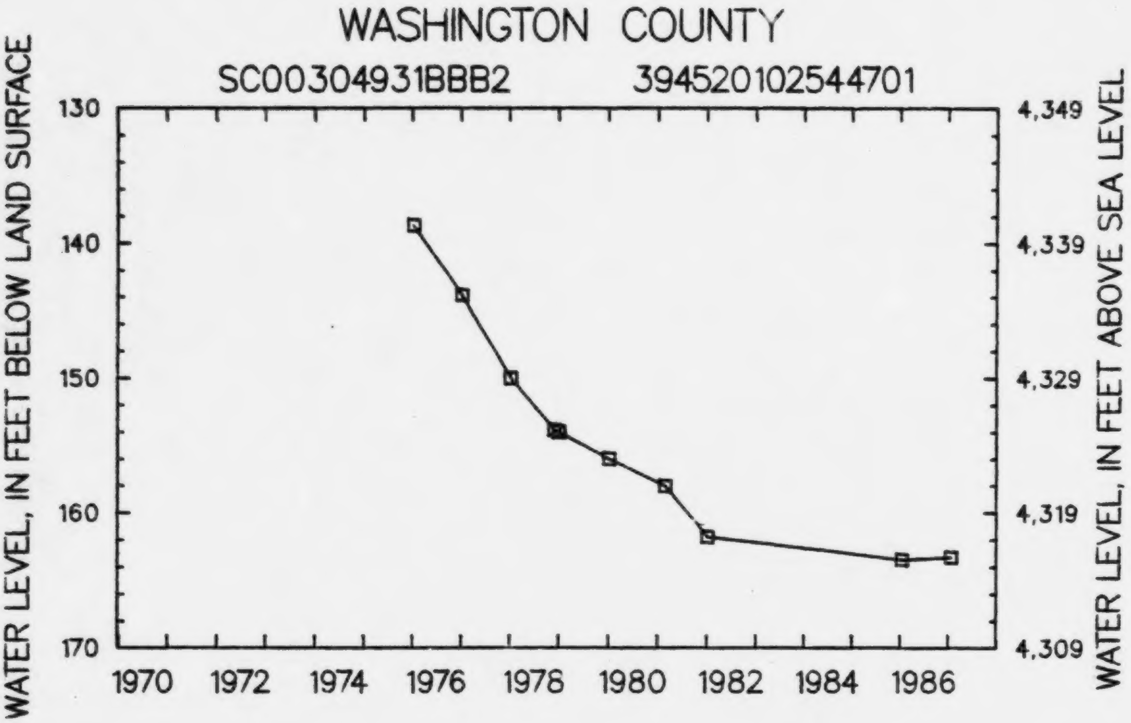


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



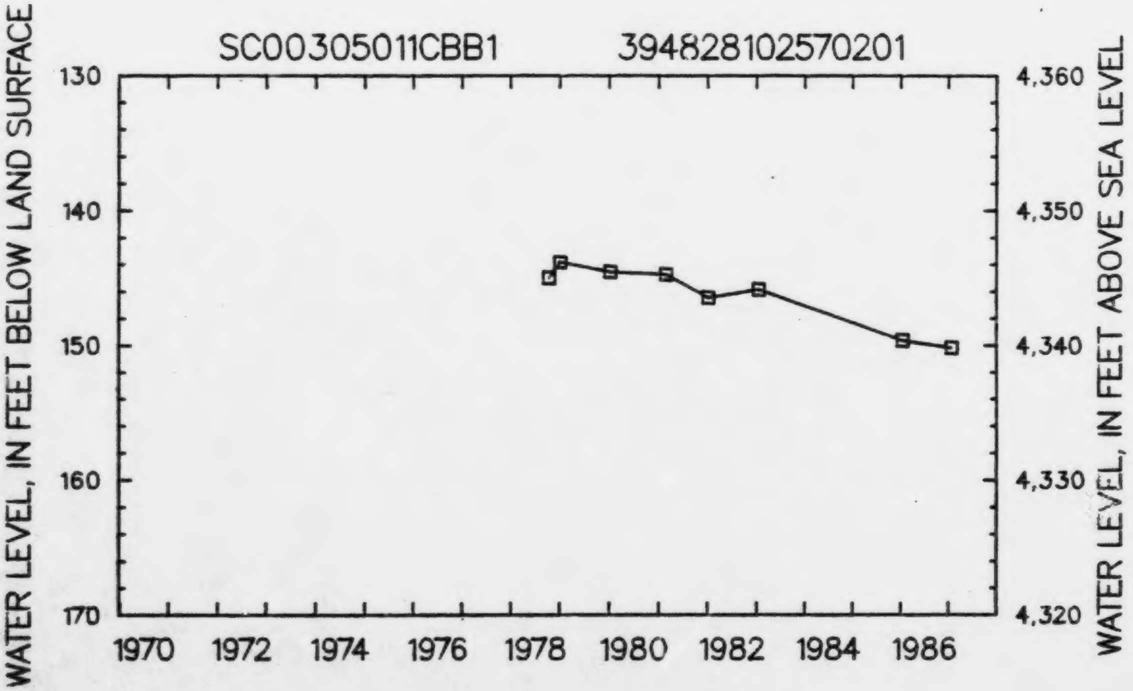


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

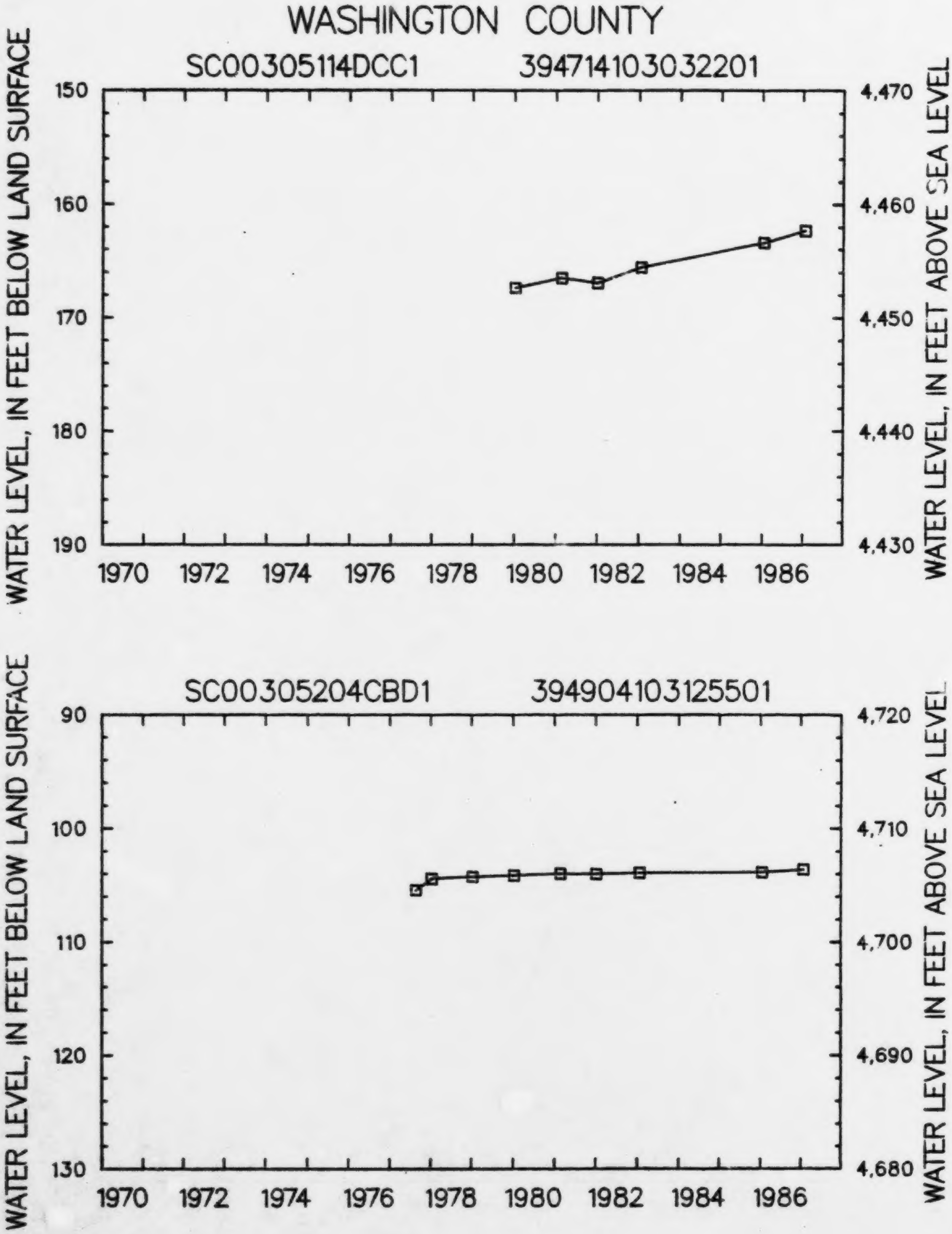
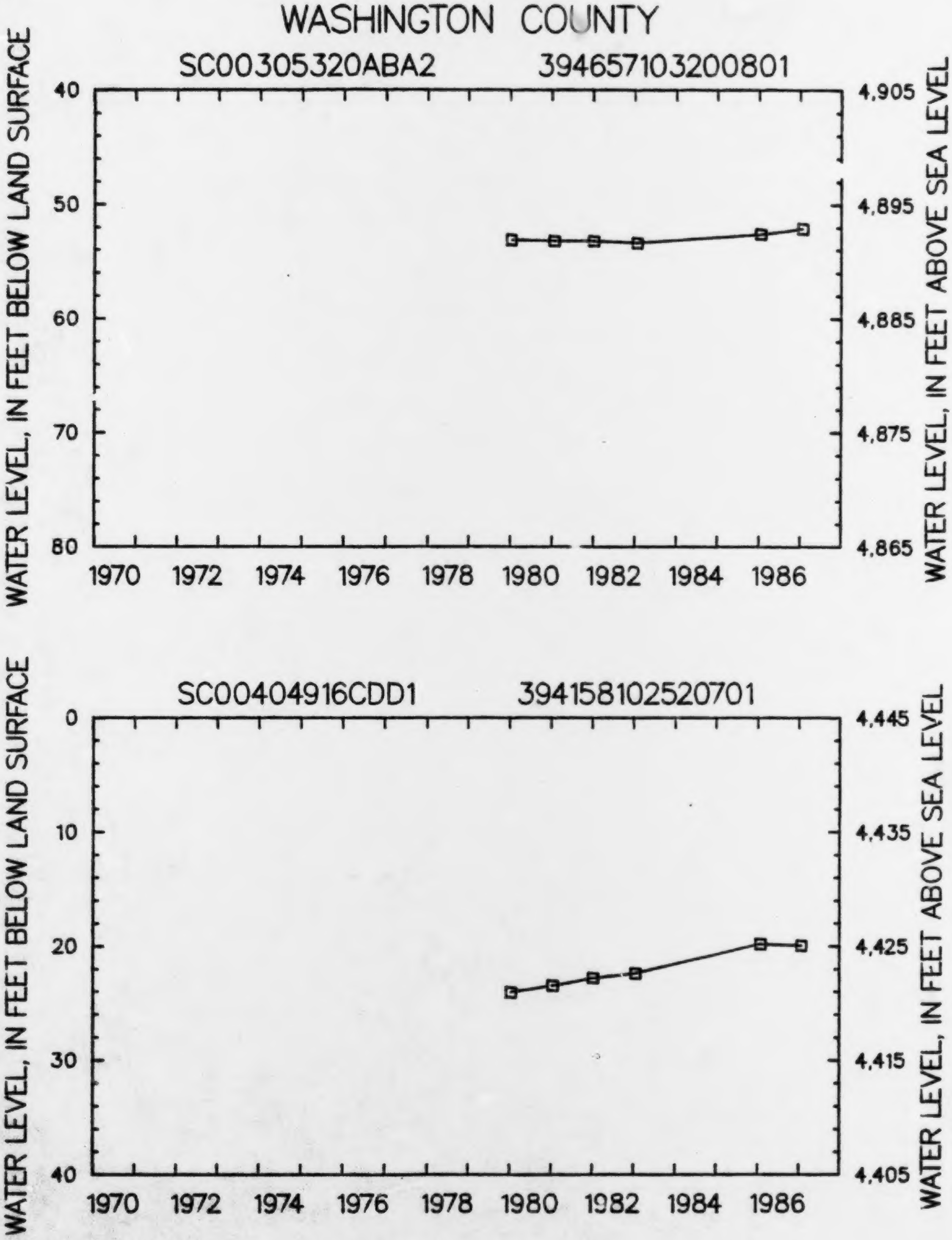


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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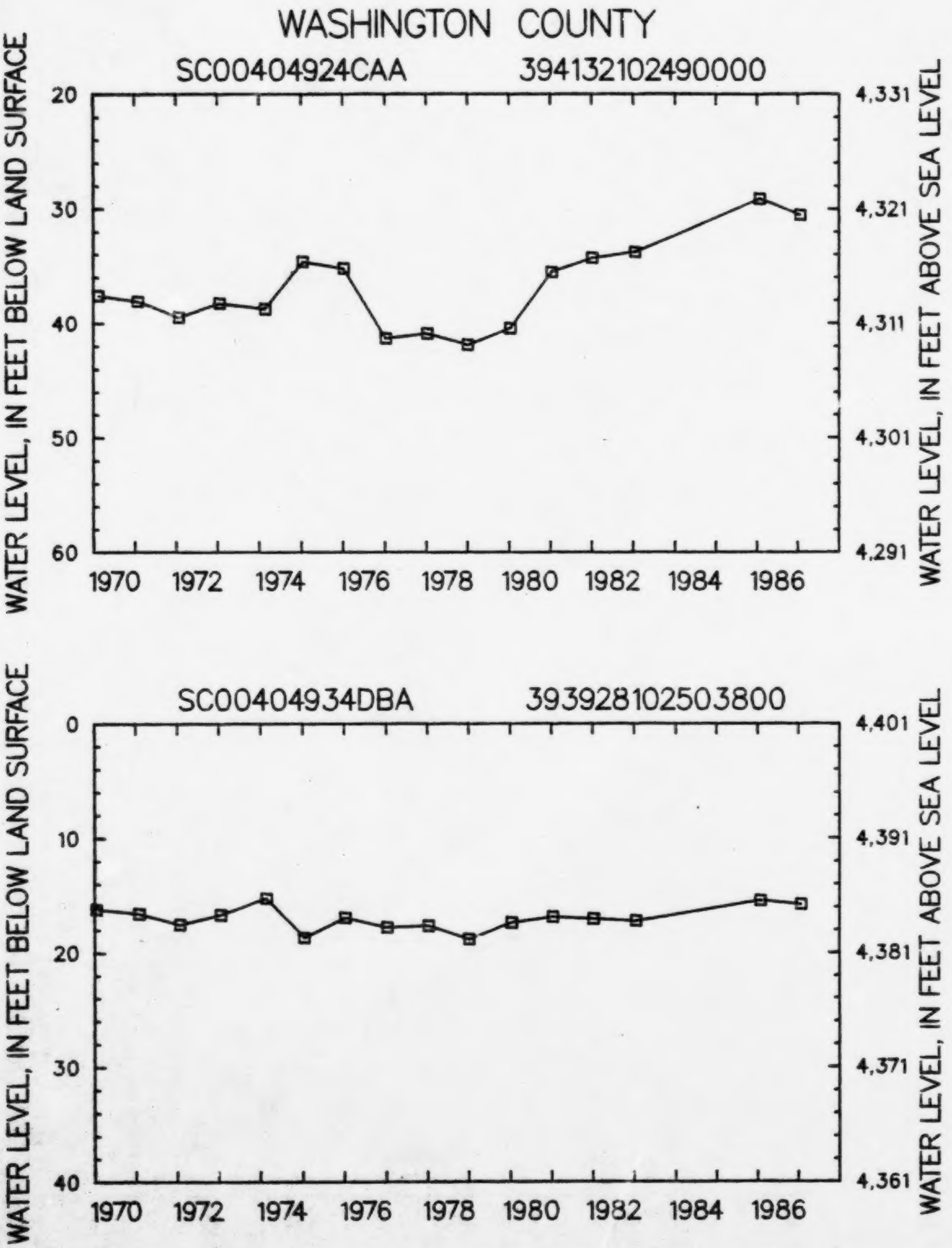


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

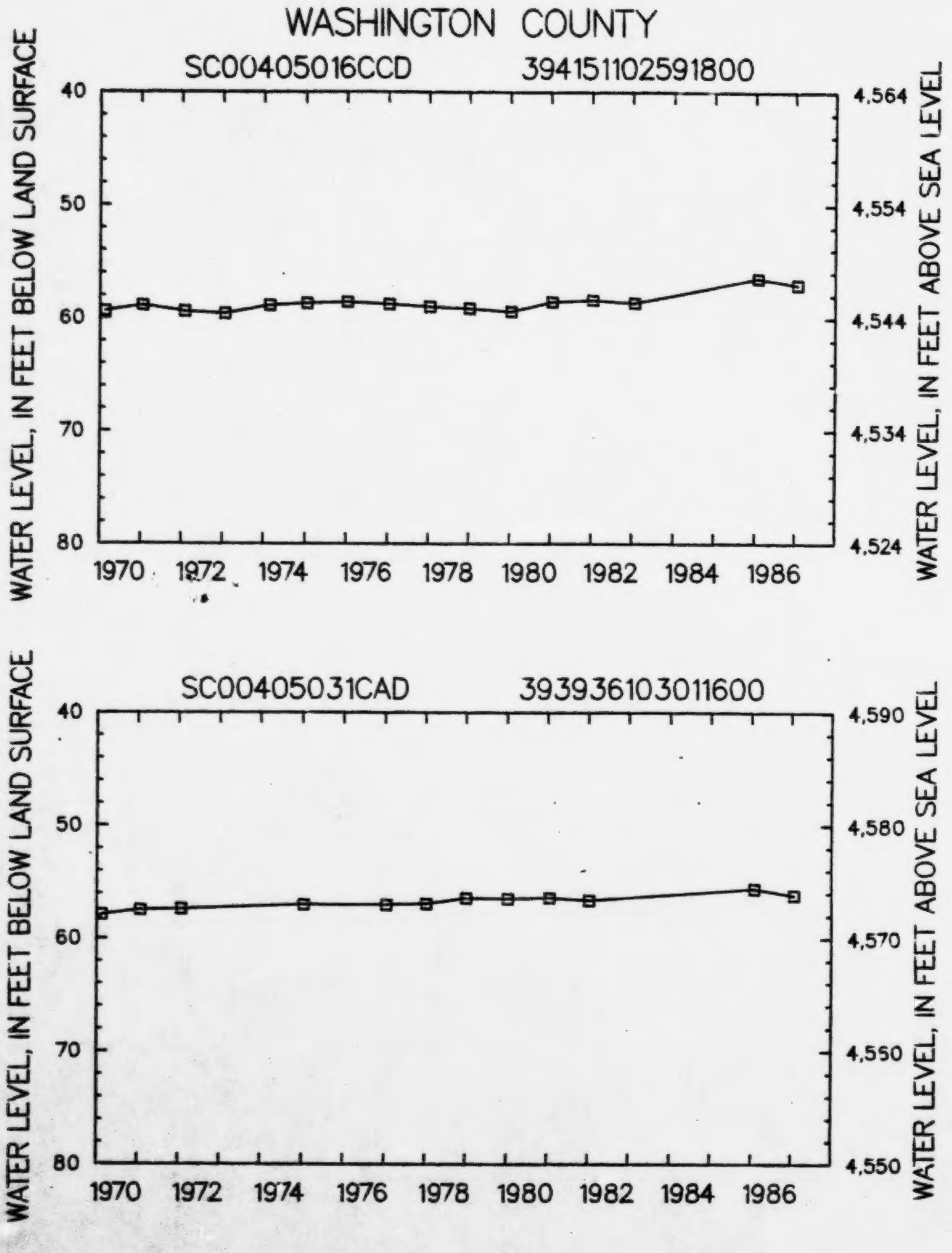
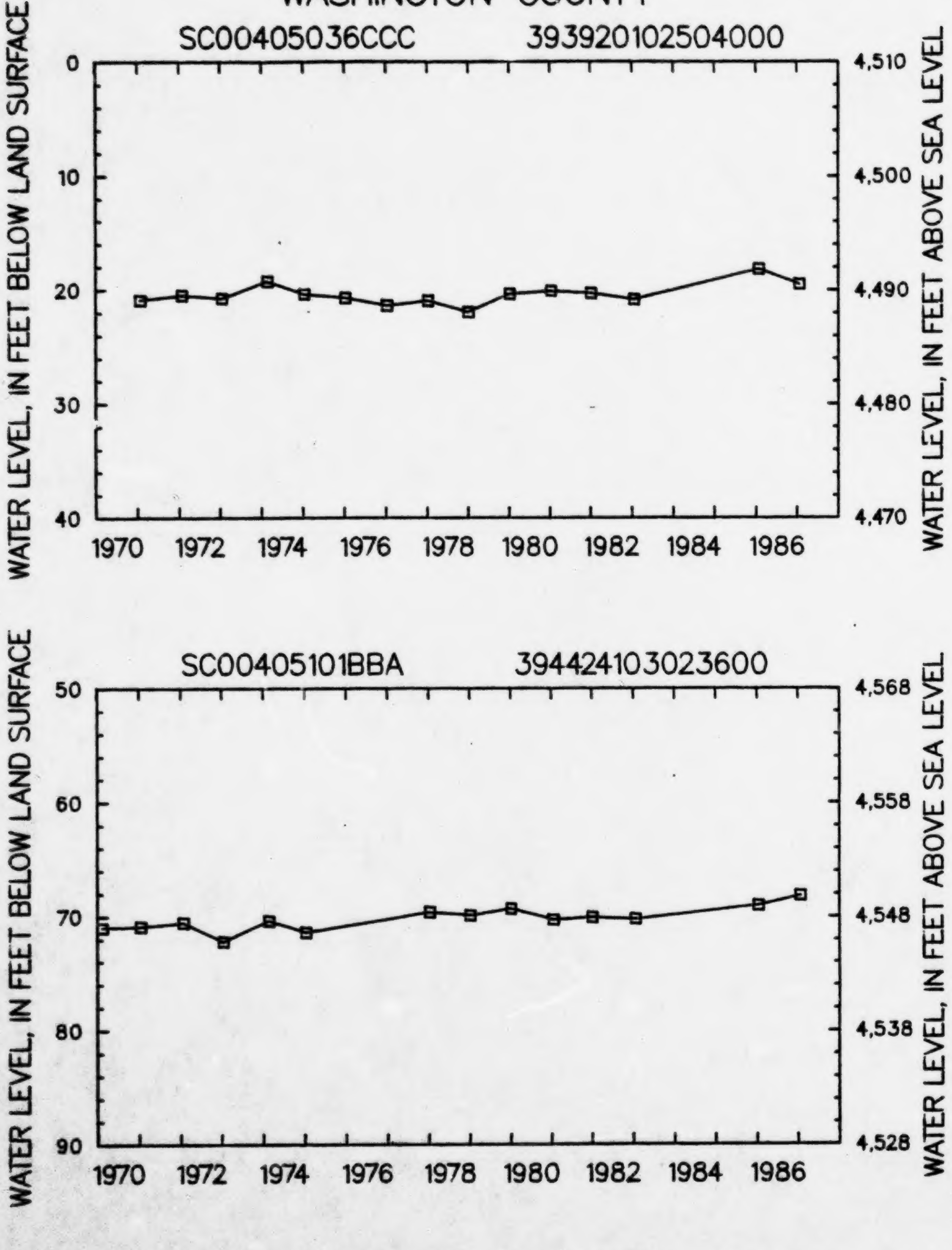


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



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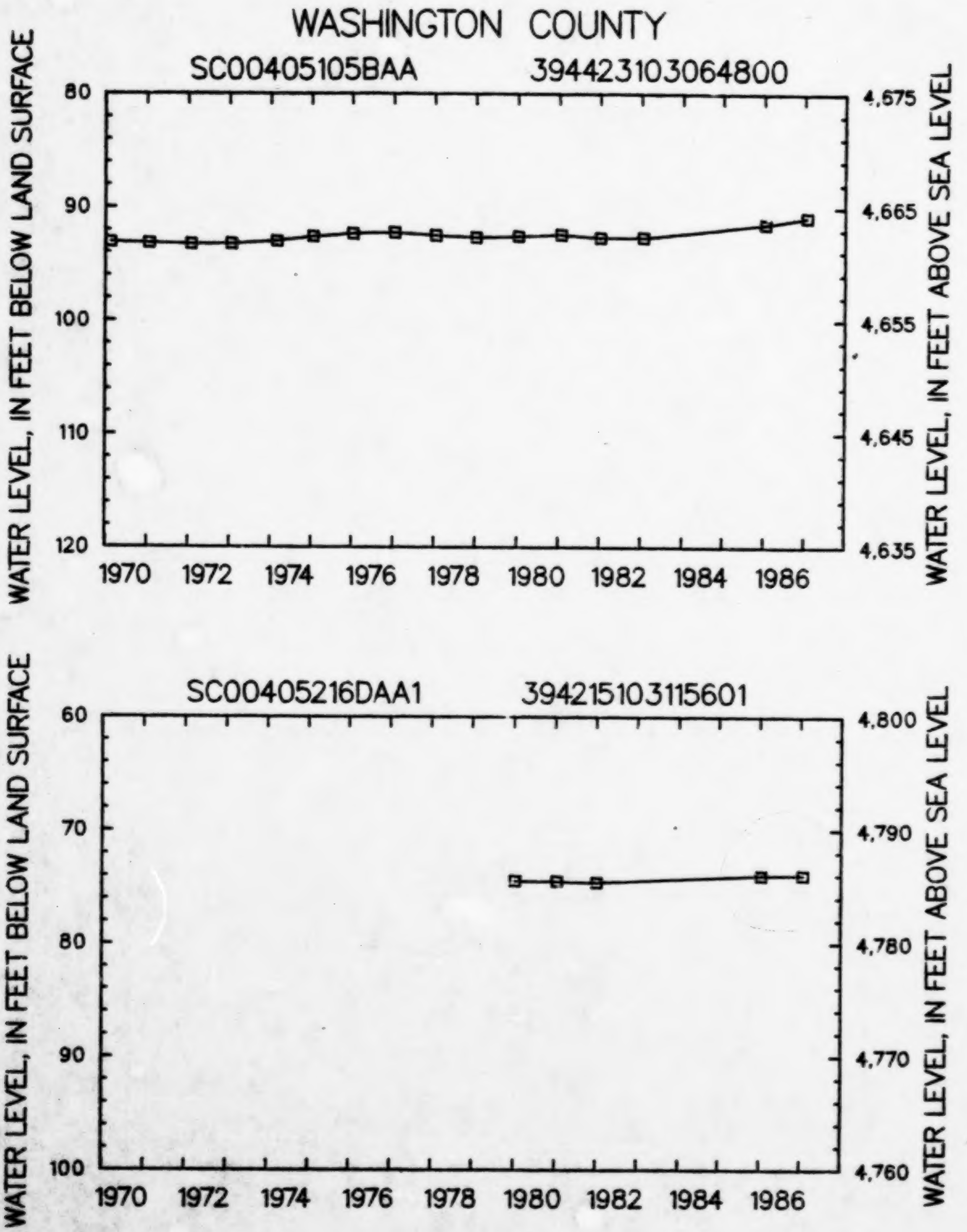


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

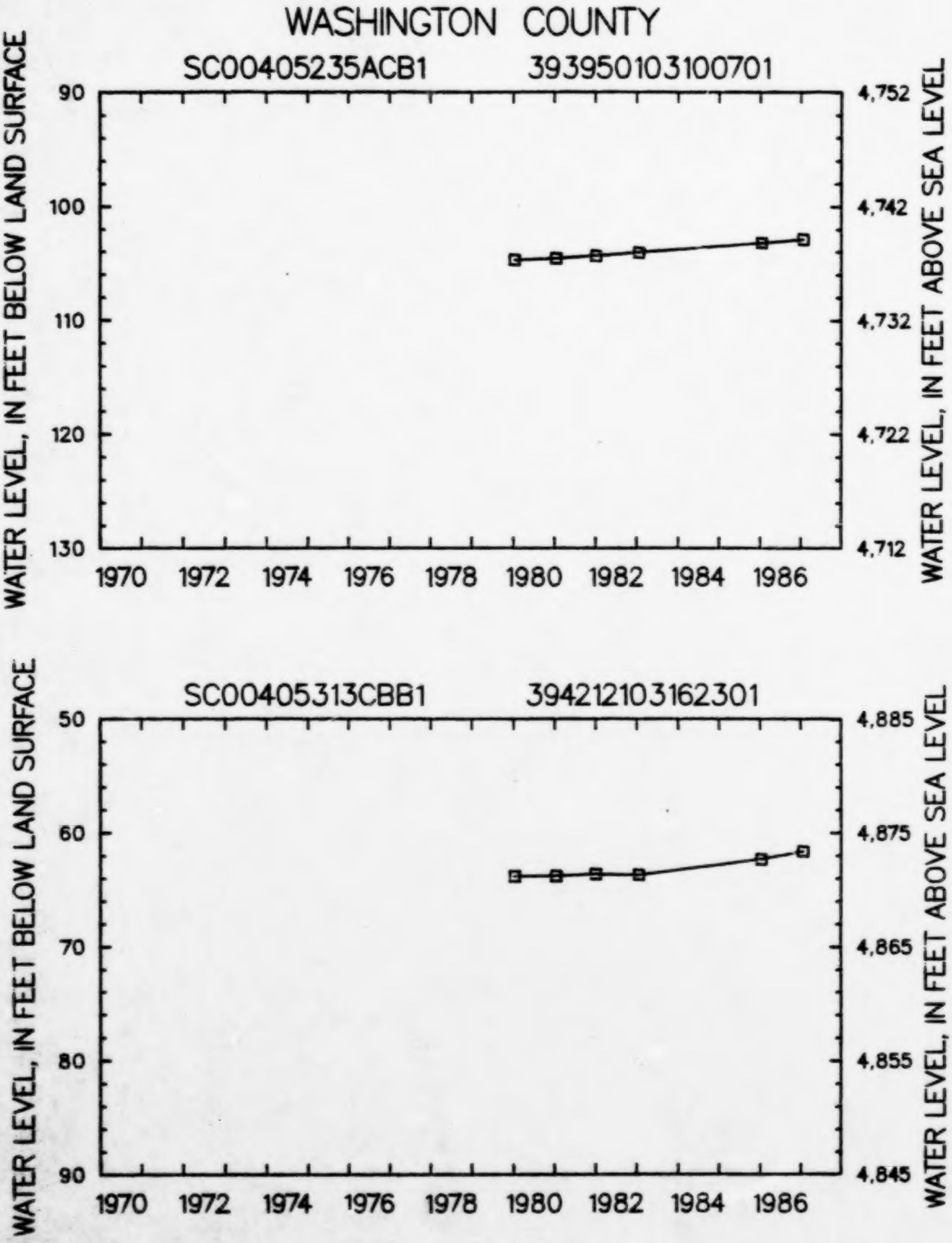


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

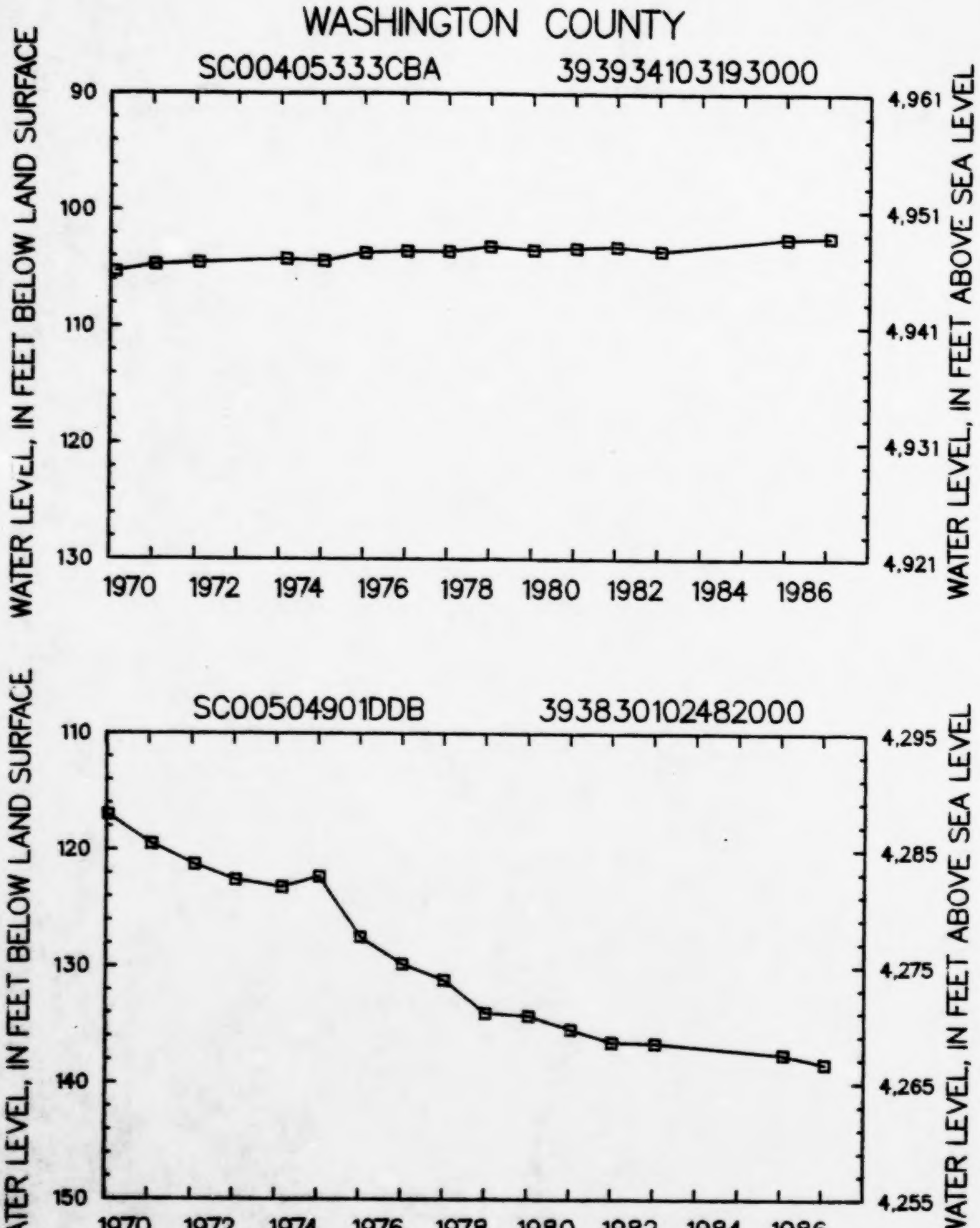
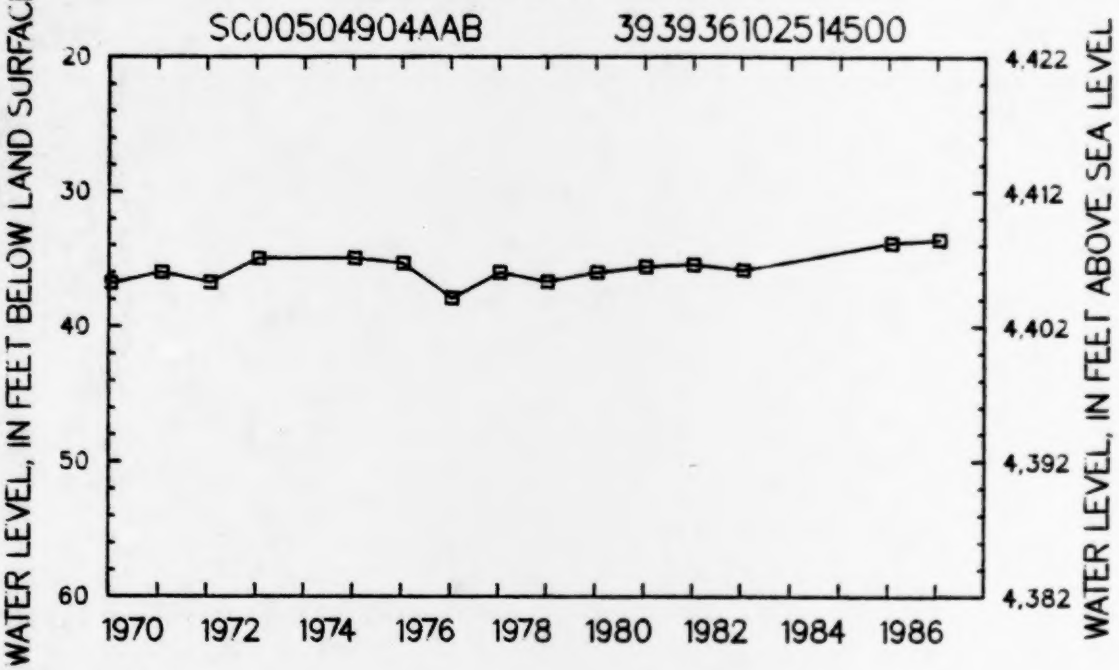


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY



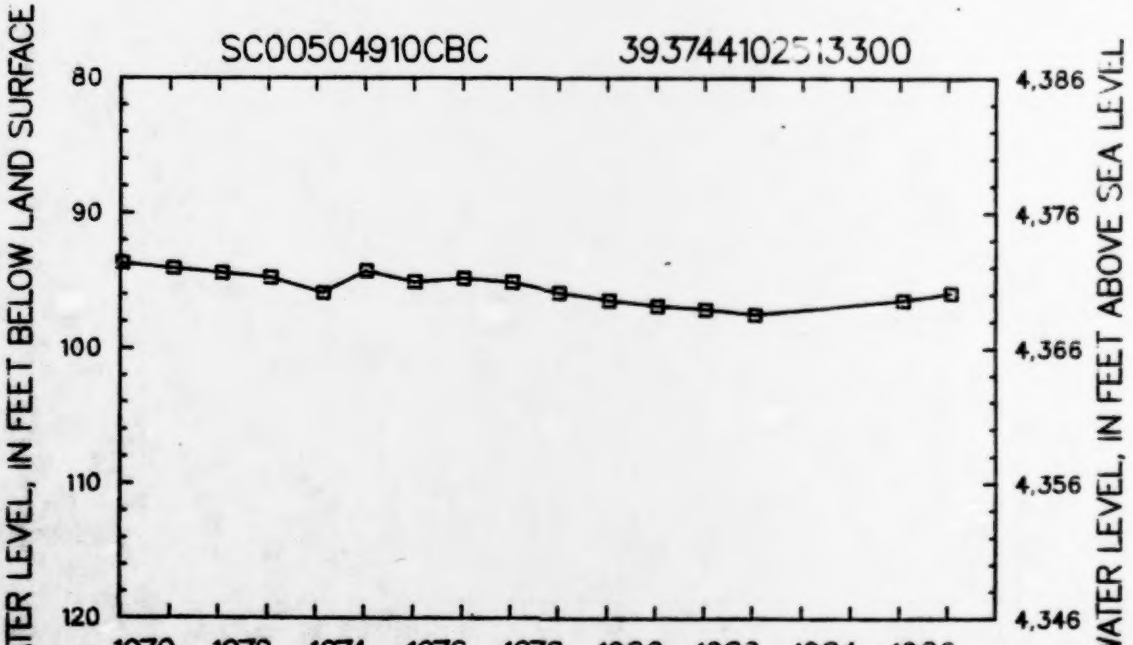


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

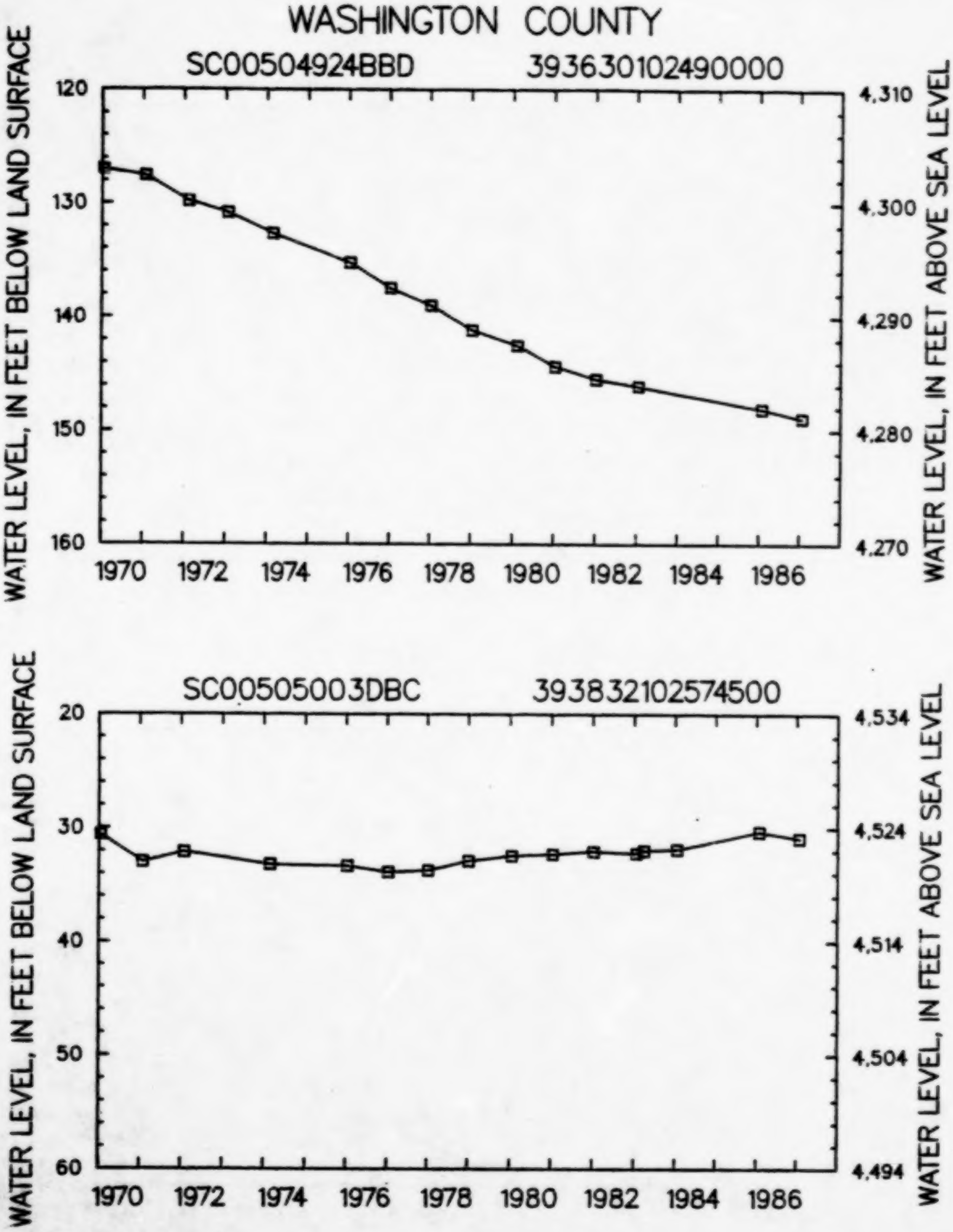


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

WASHINGTON COUNTY

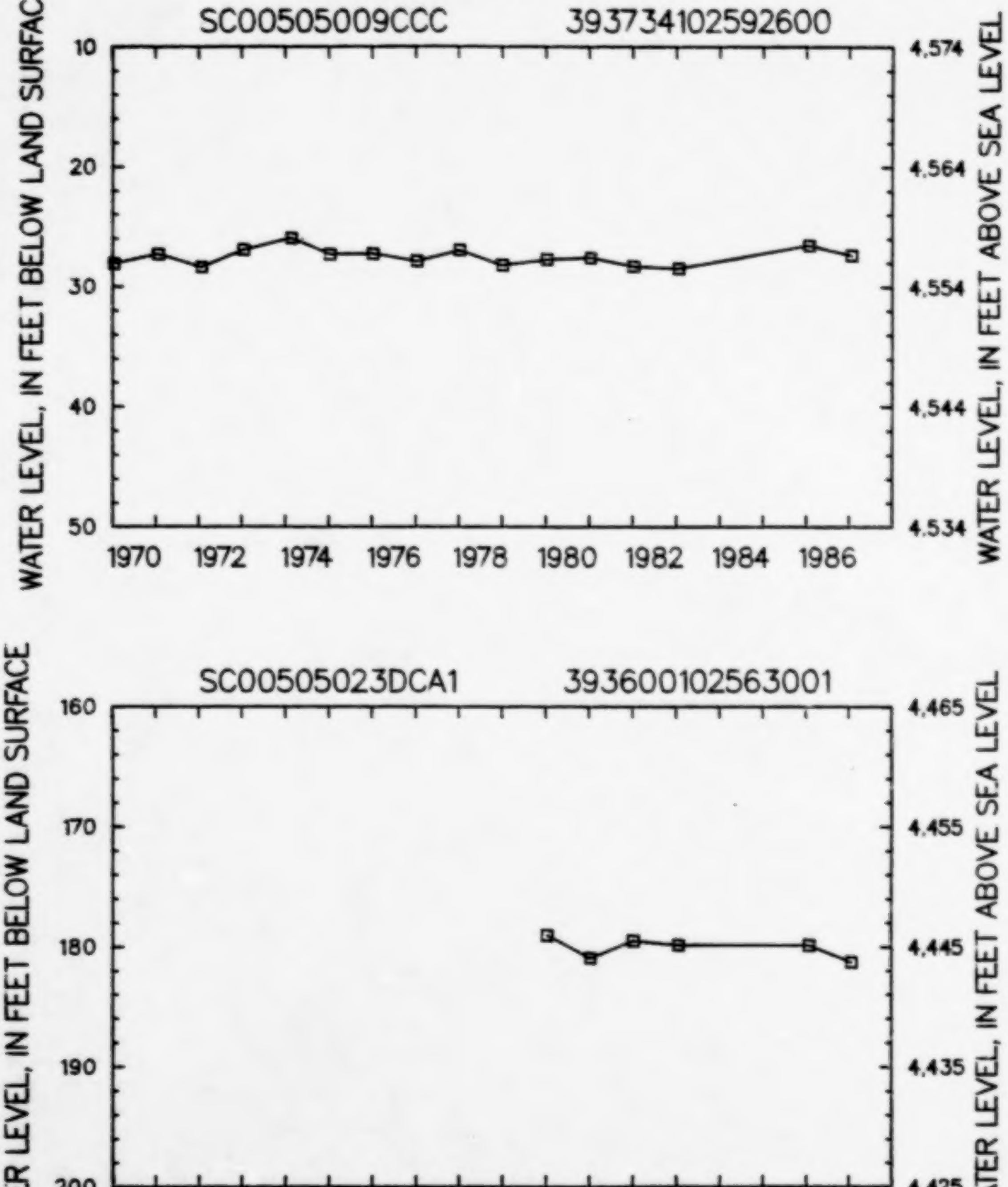
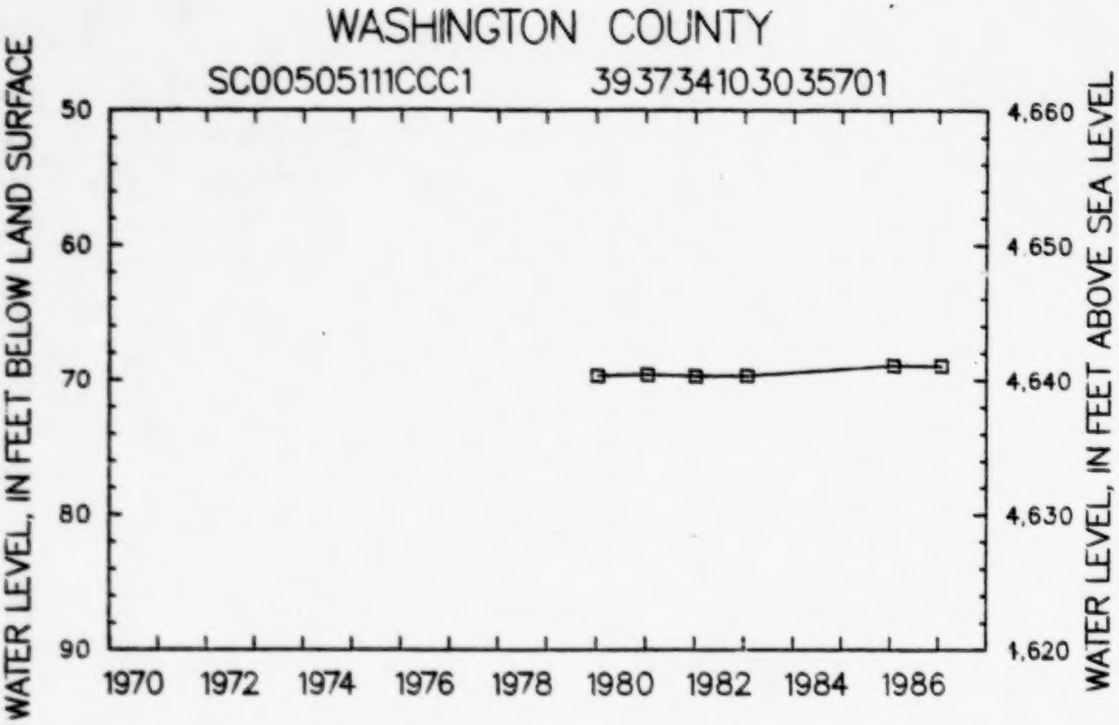
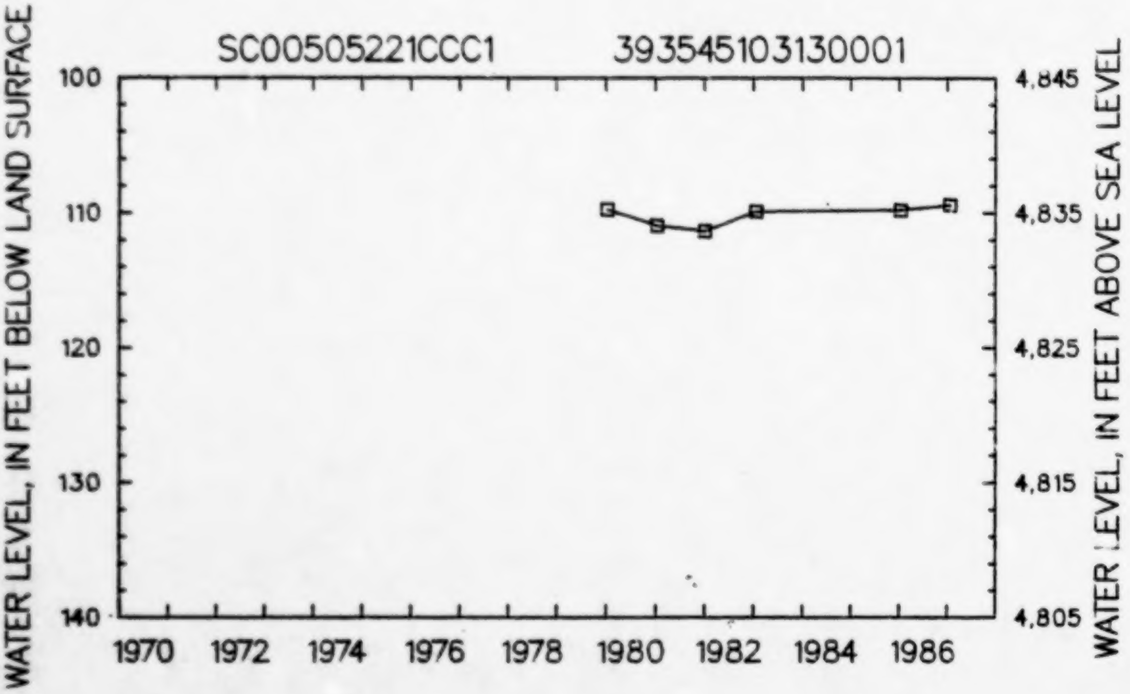


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.





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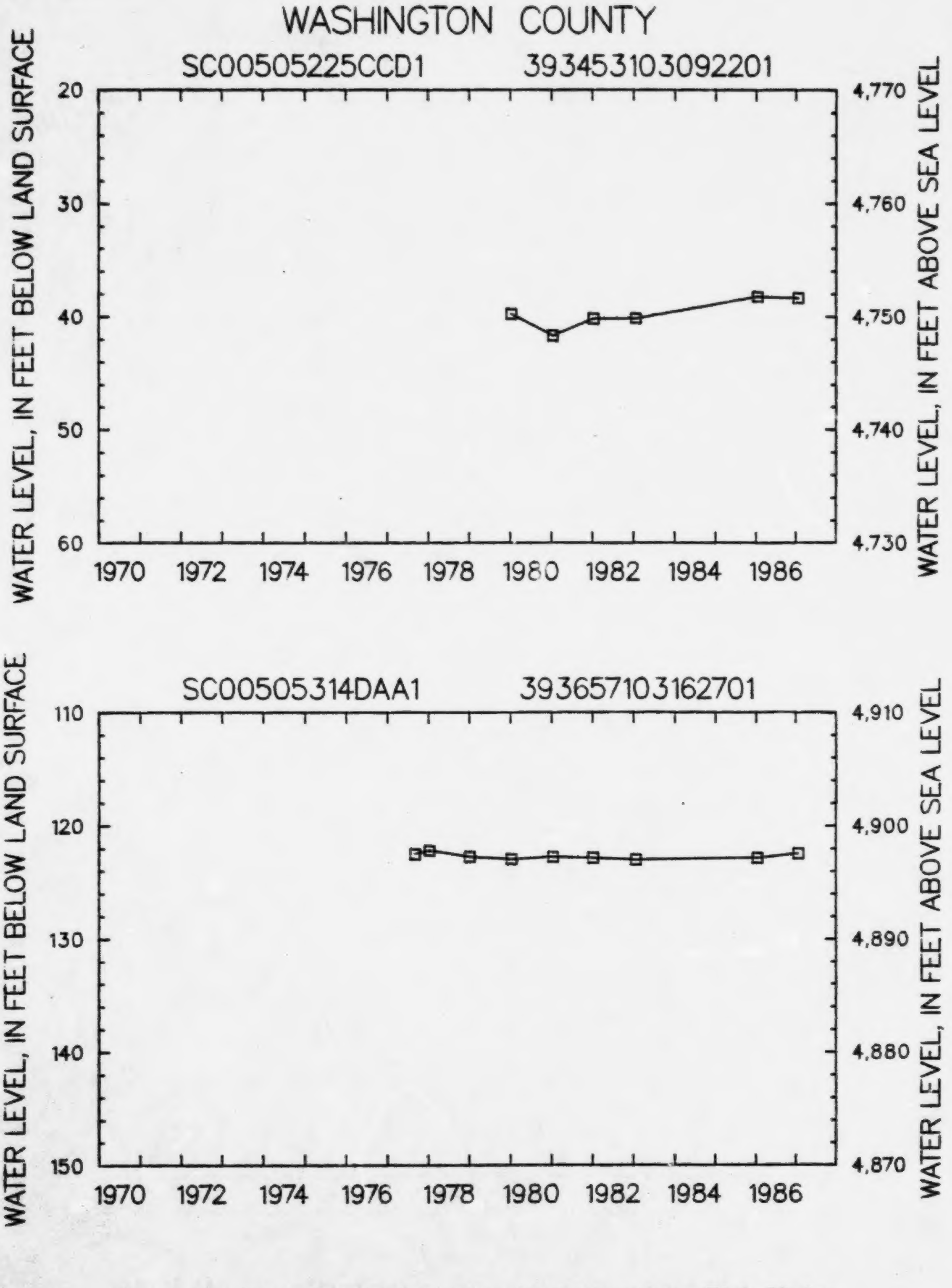


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

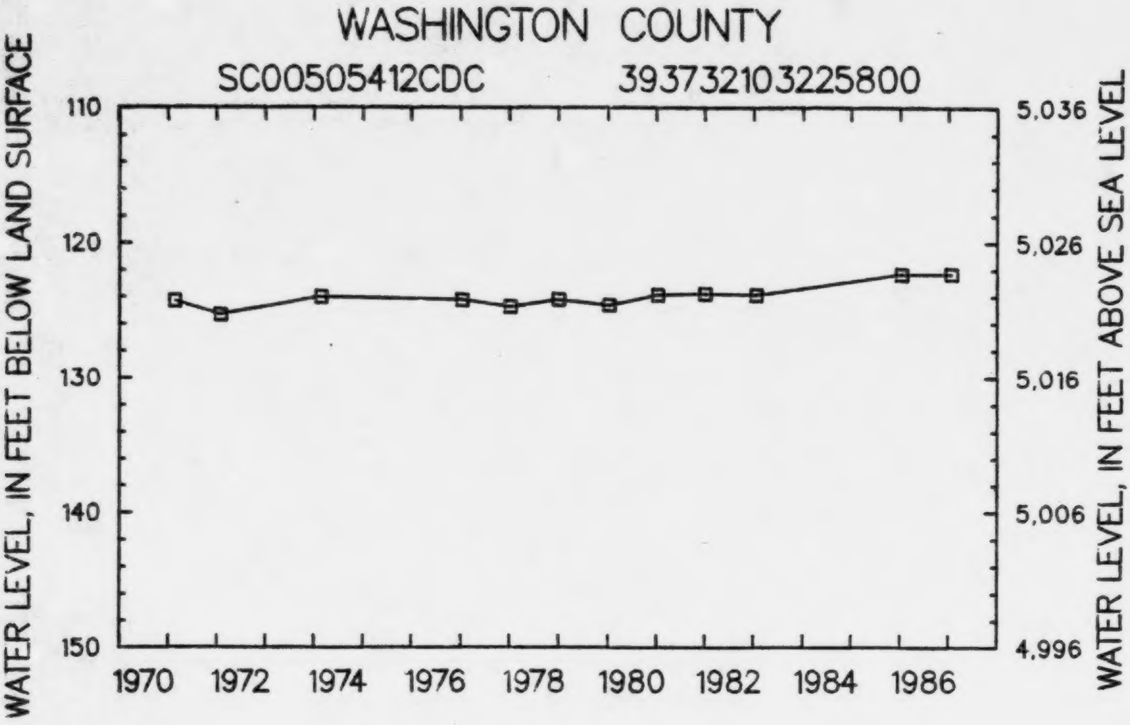
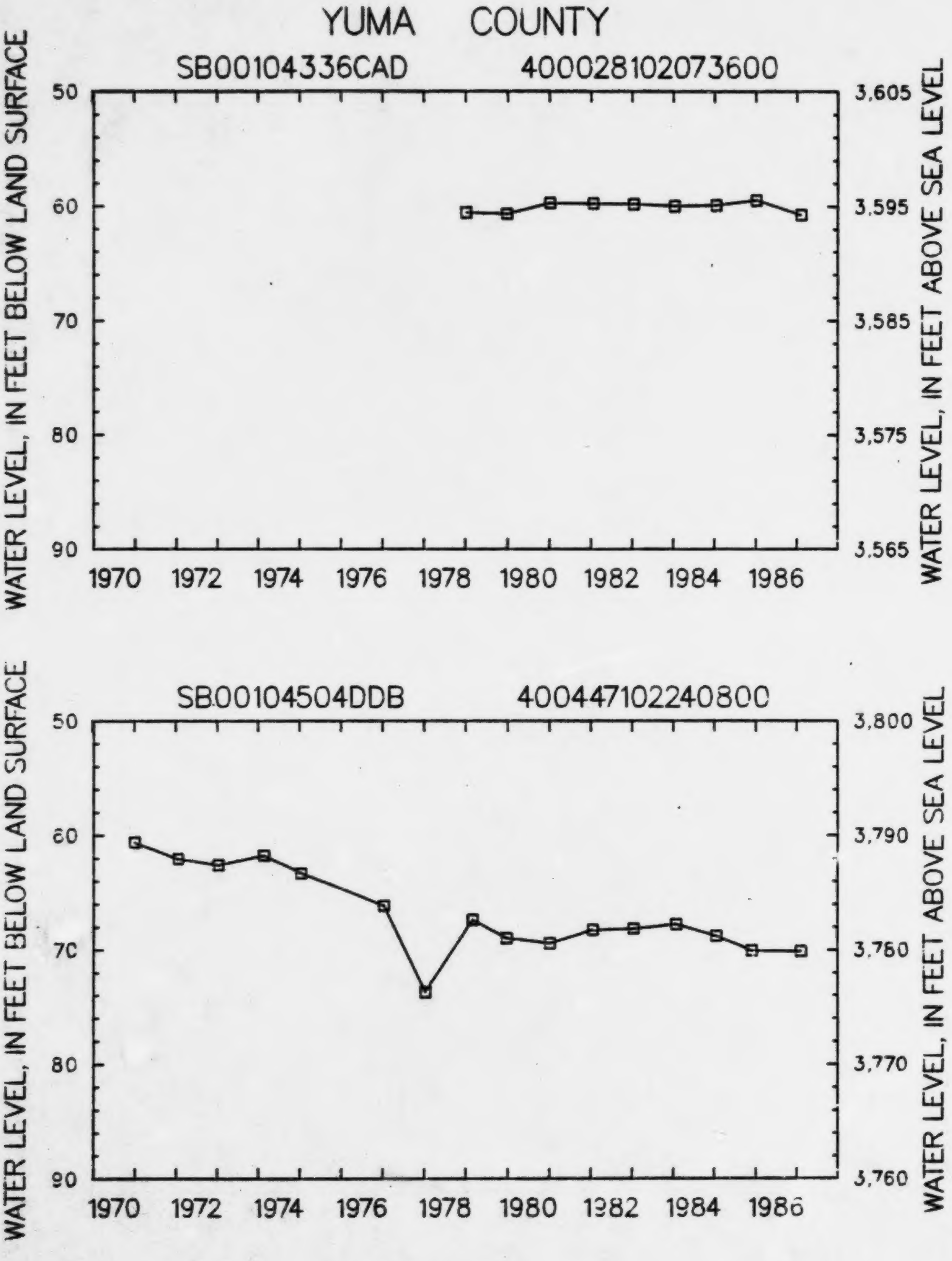


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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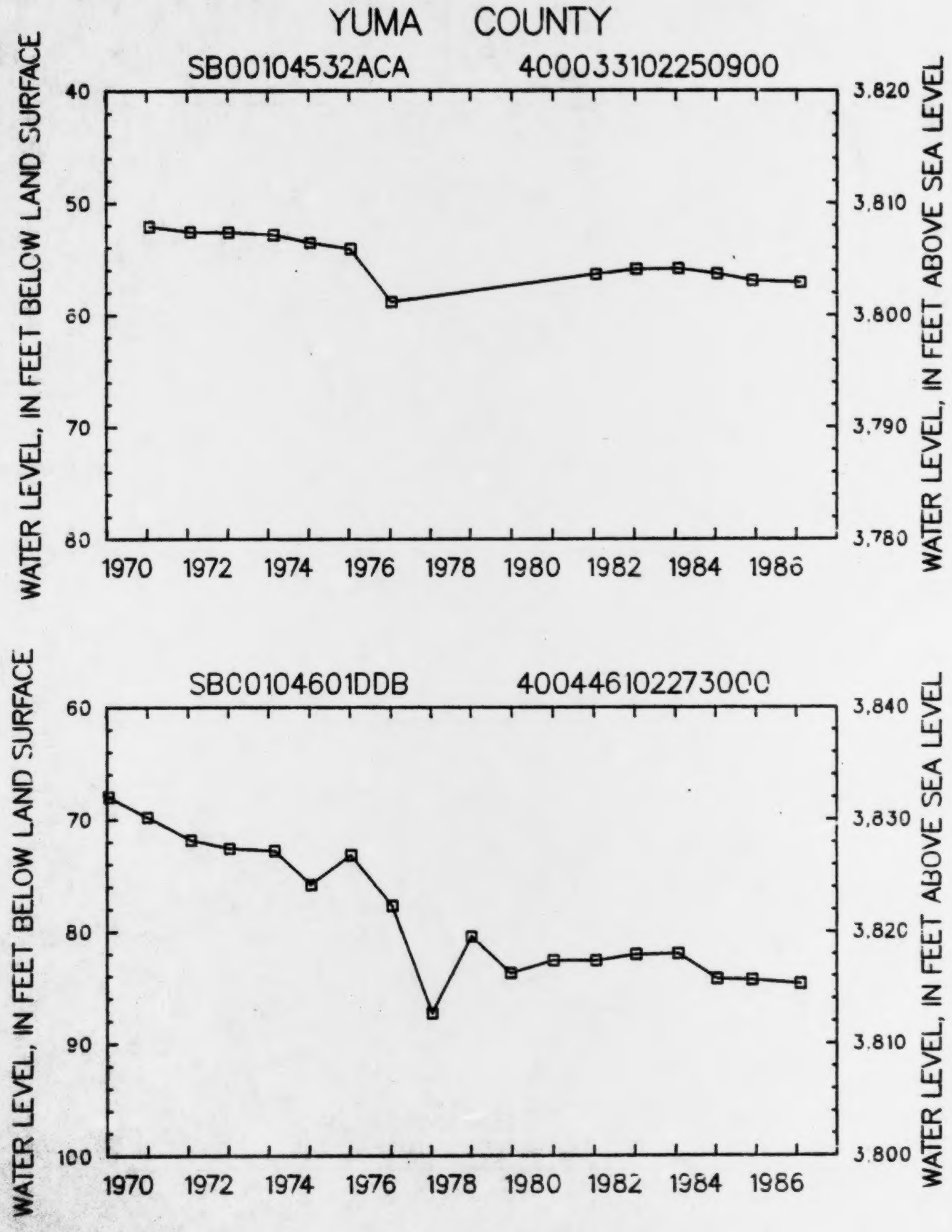

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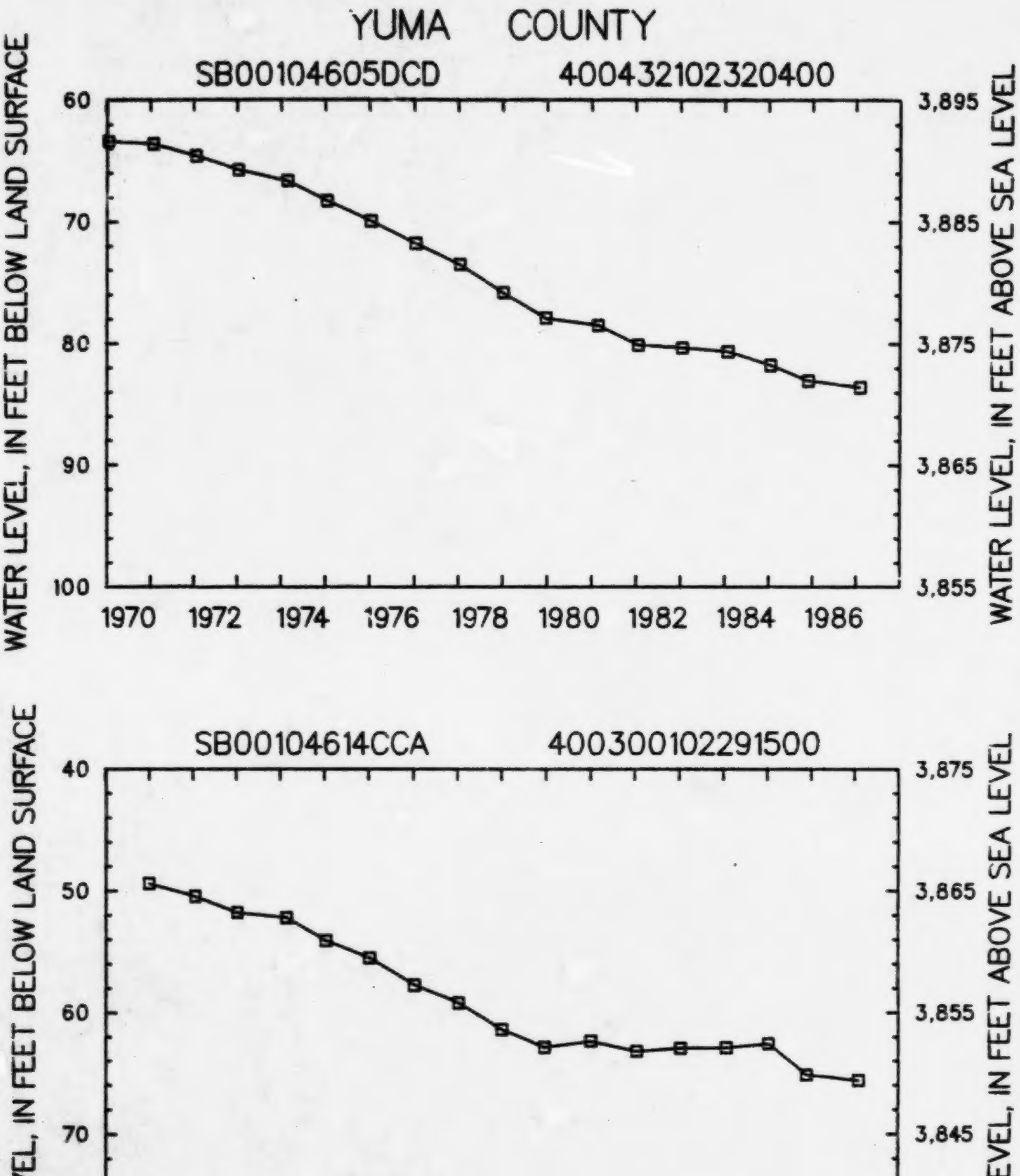

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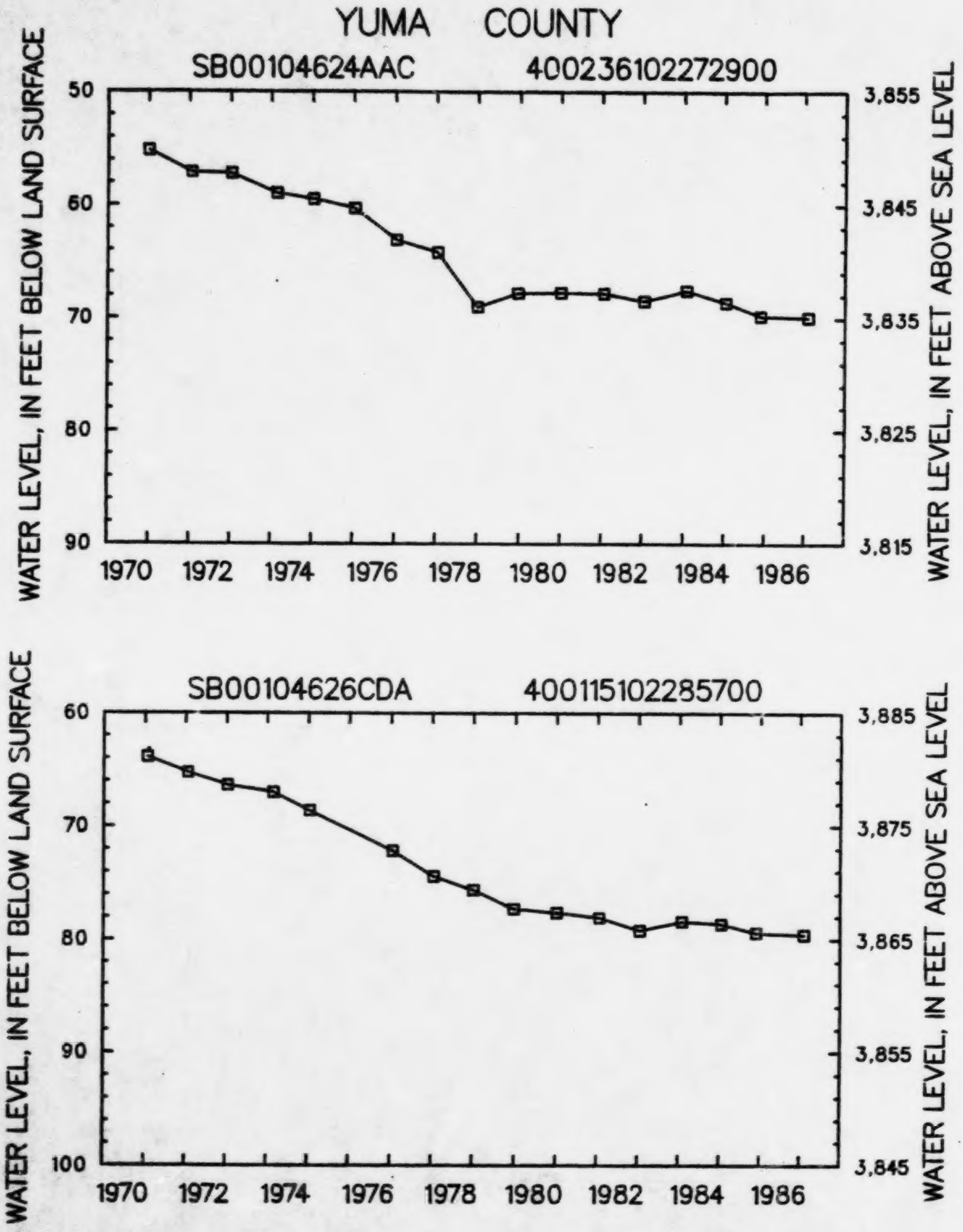
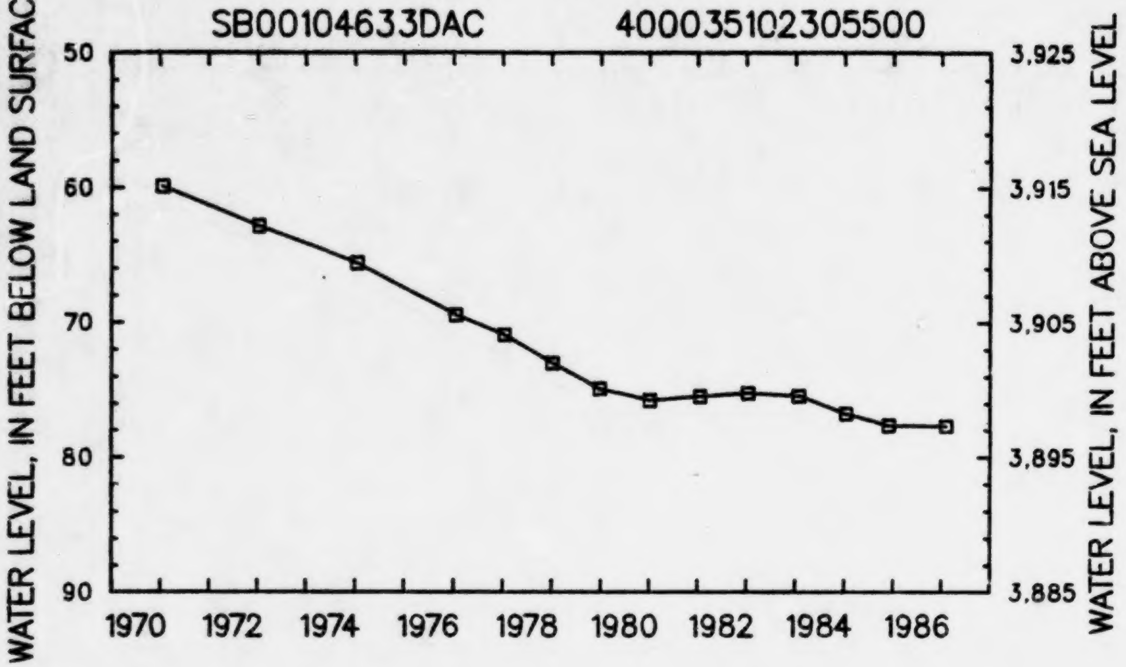


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY



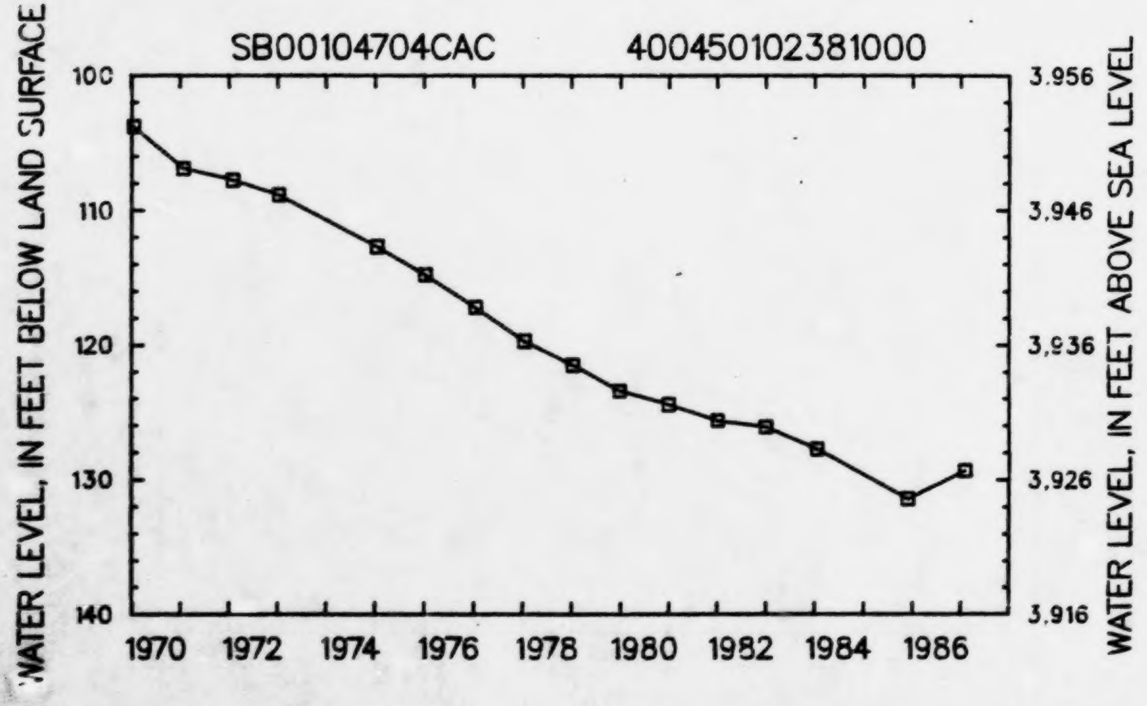


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

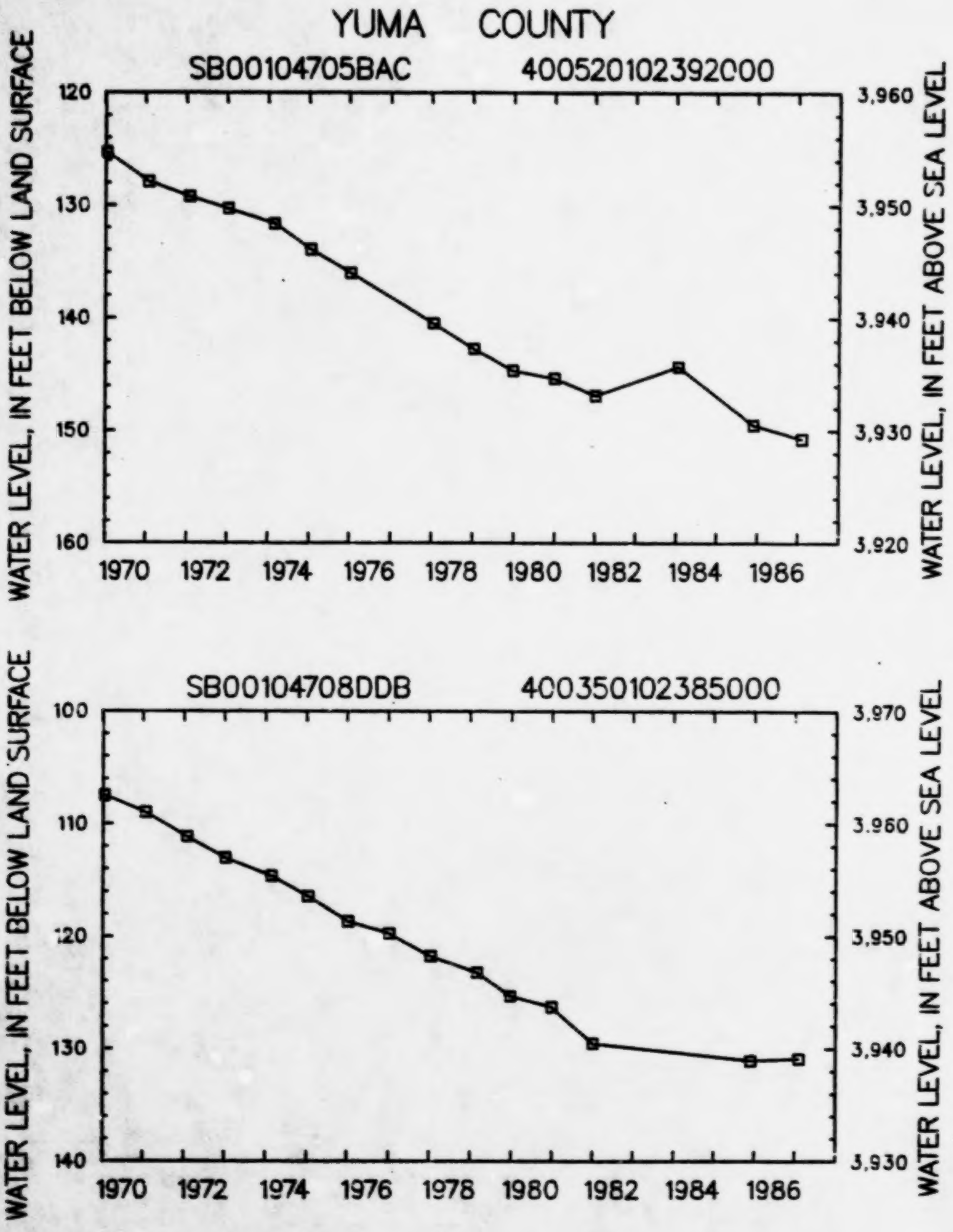


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

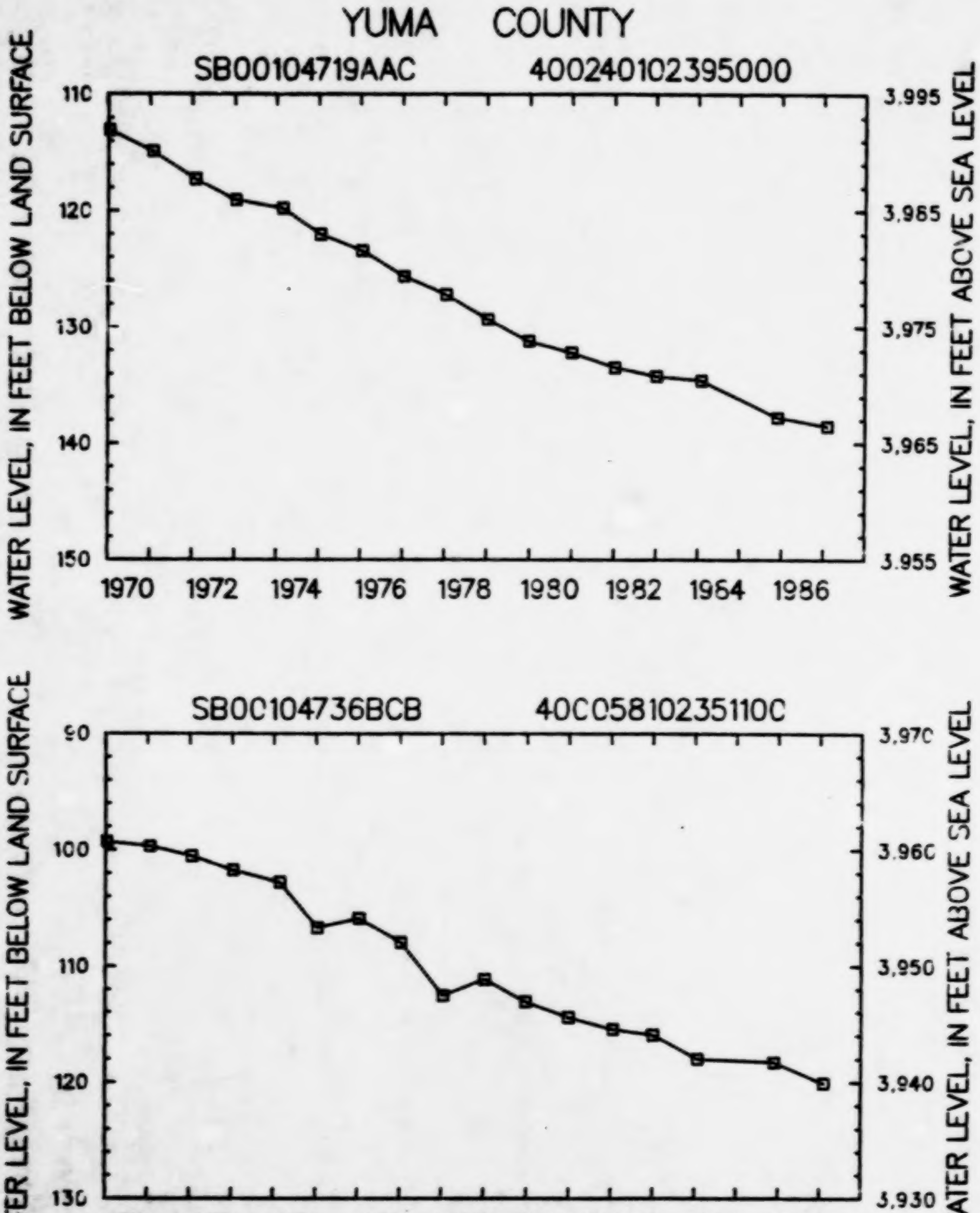
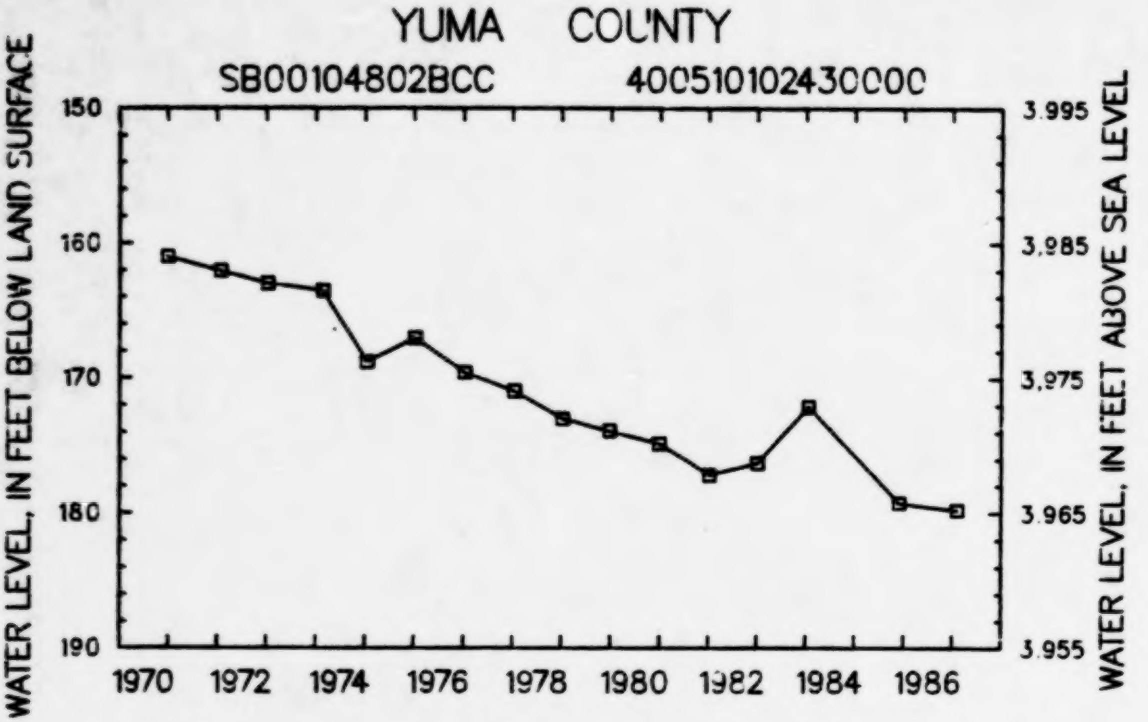


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



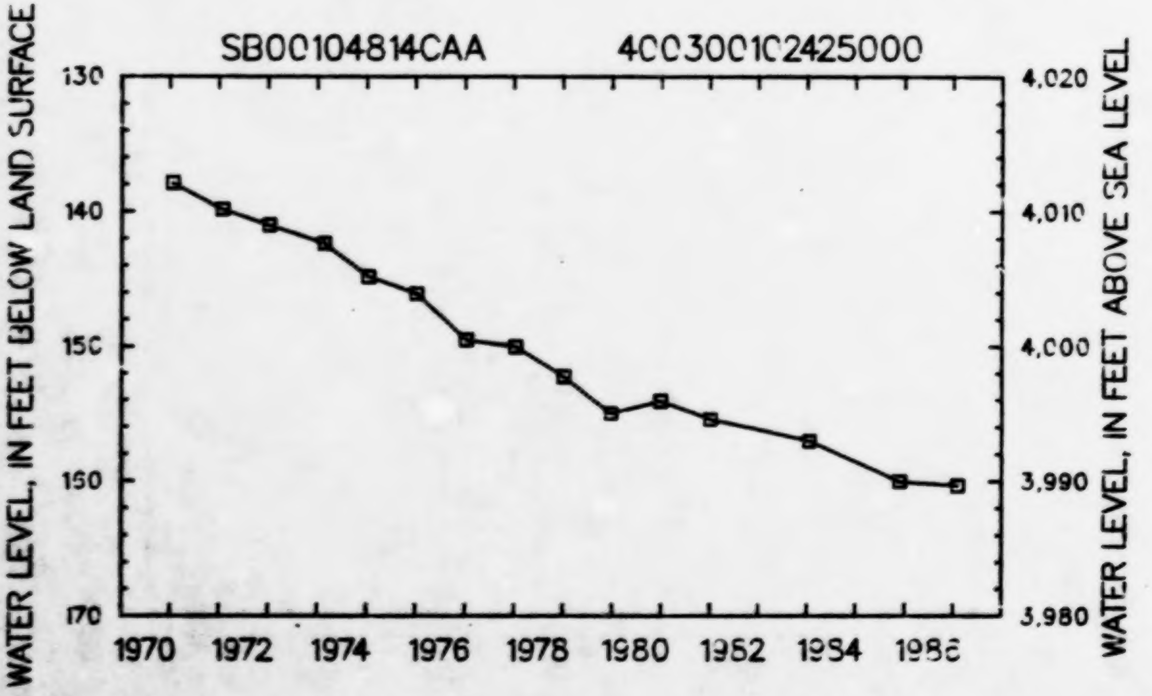


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY

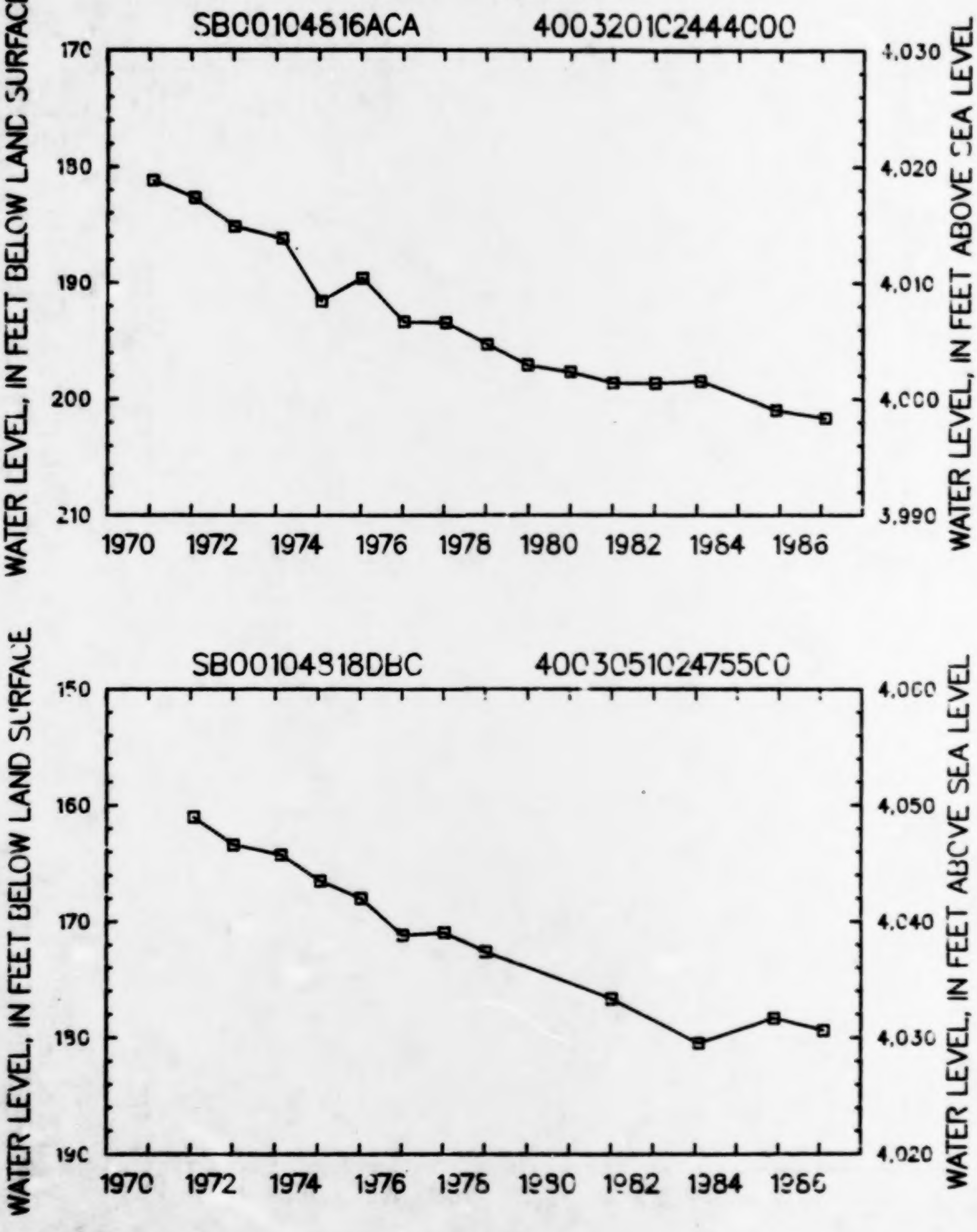


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

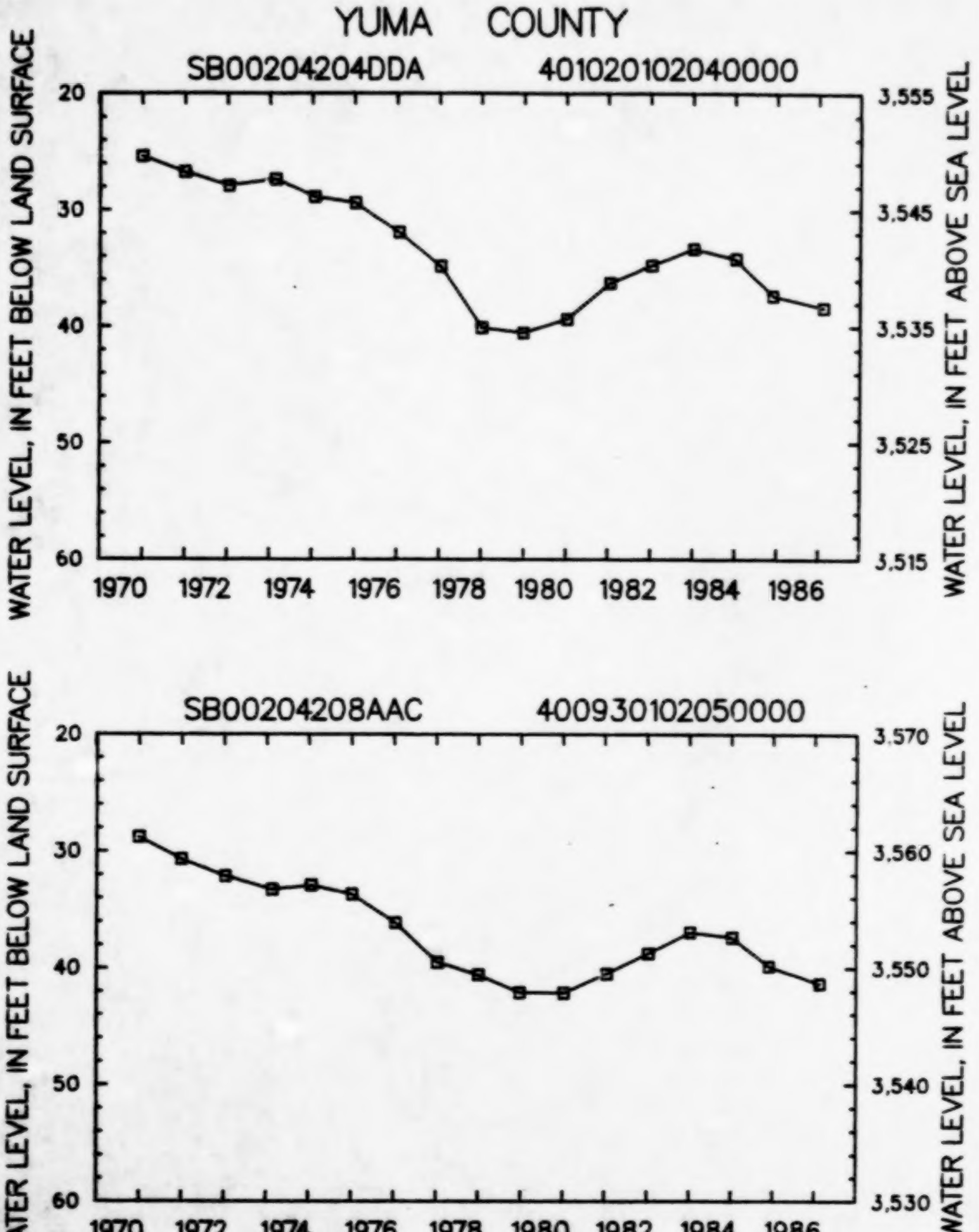
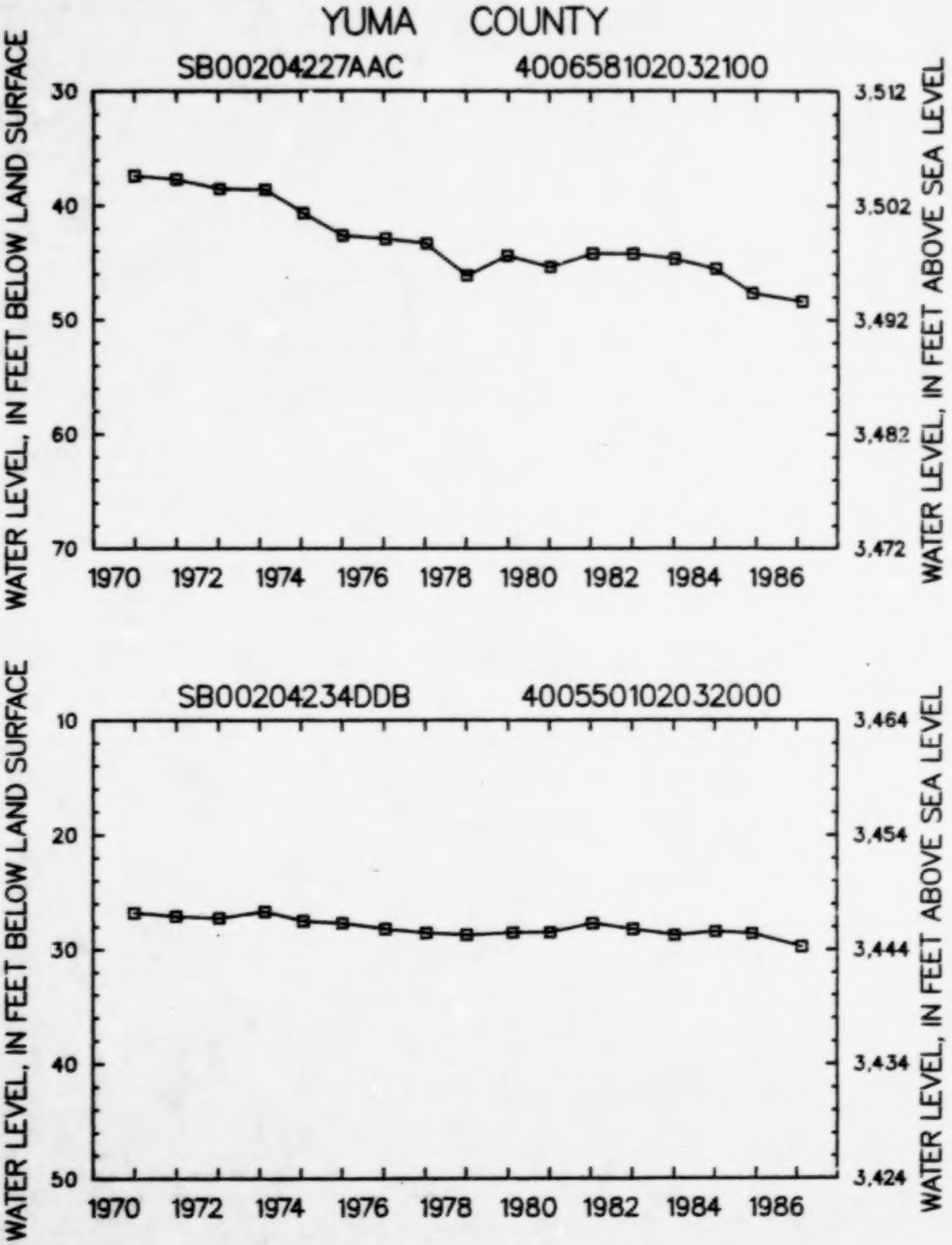


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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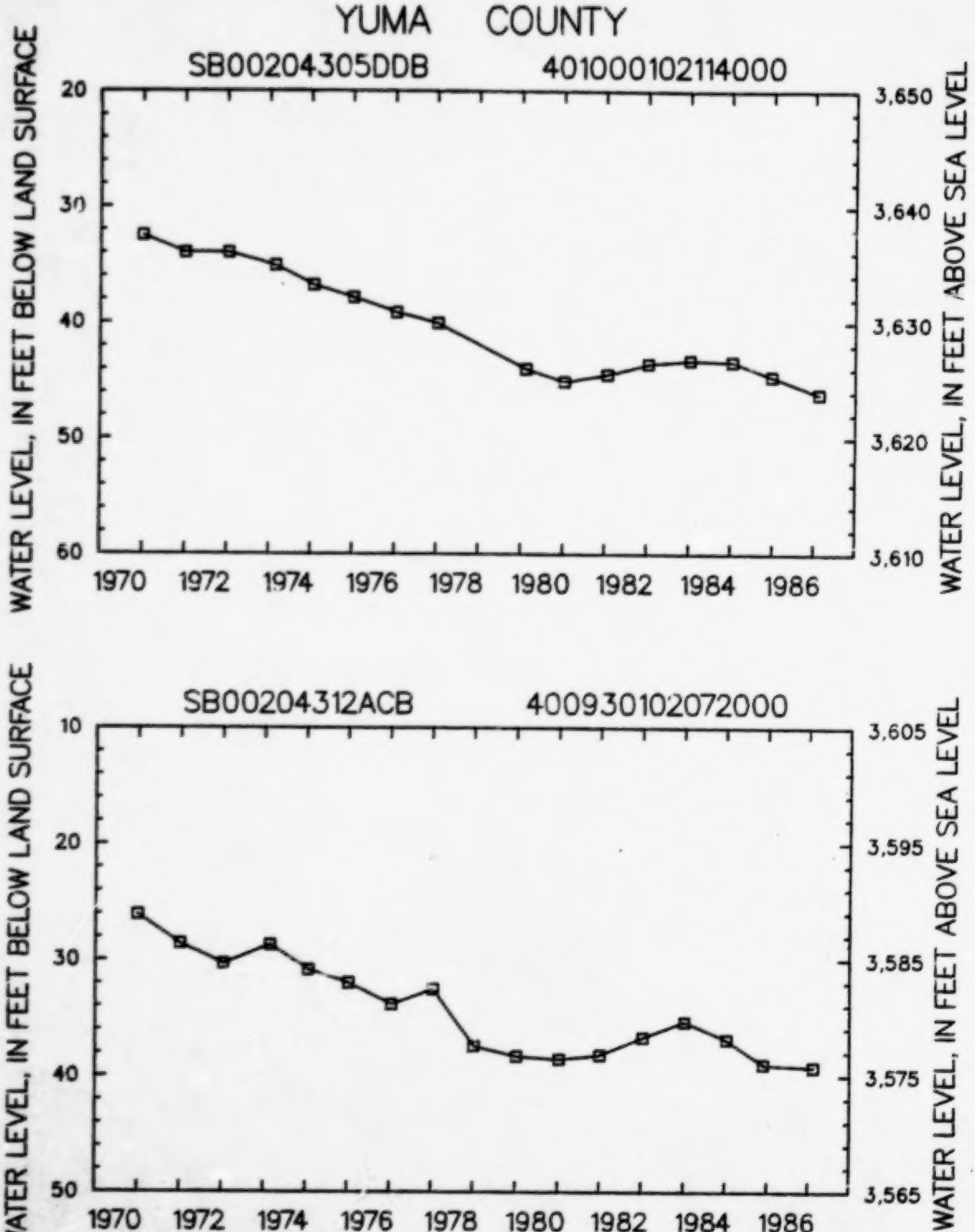


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

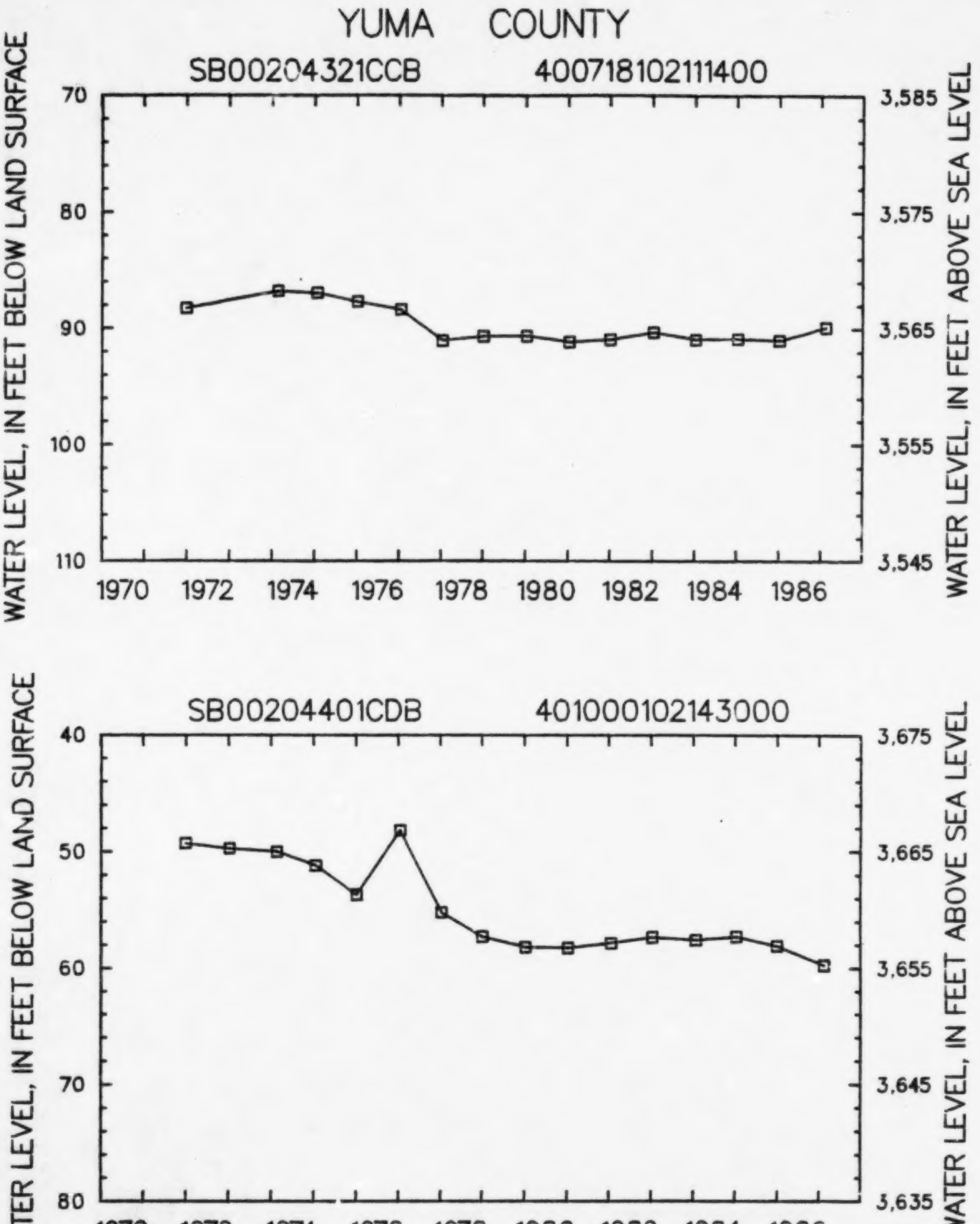


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

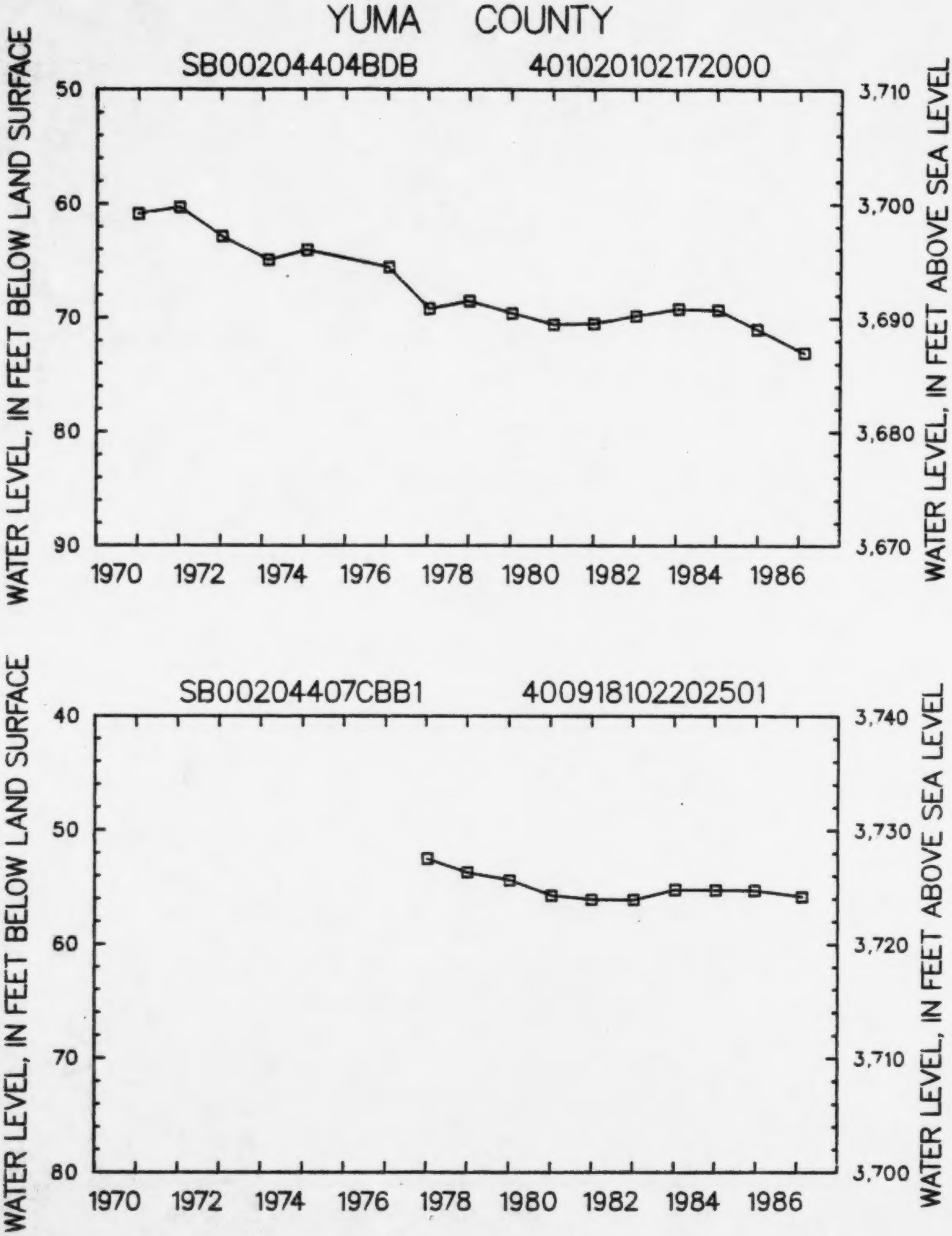


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

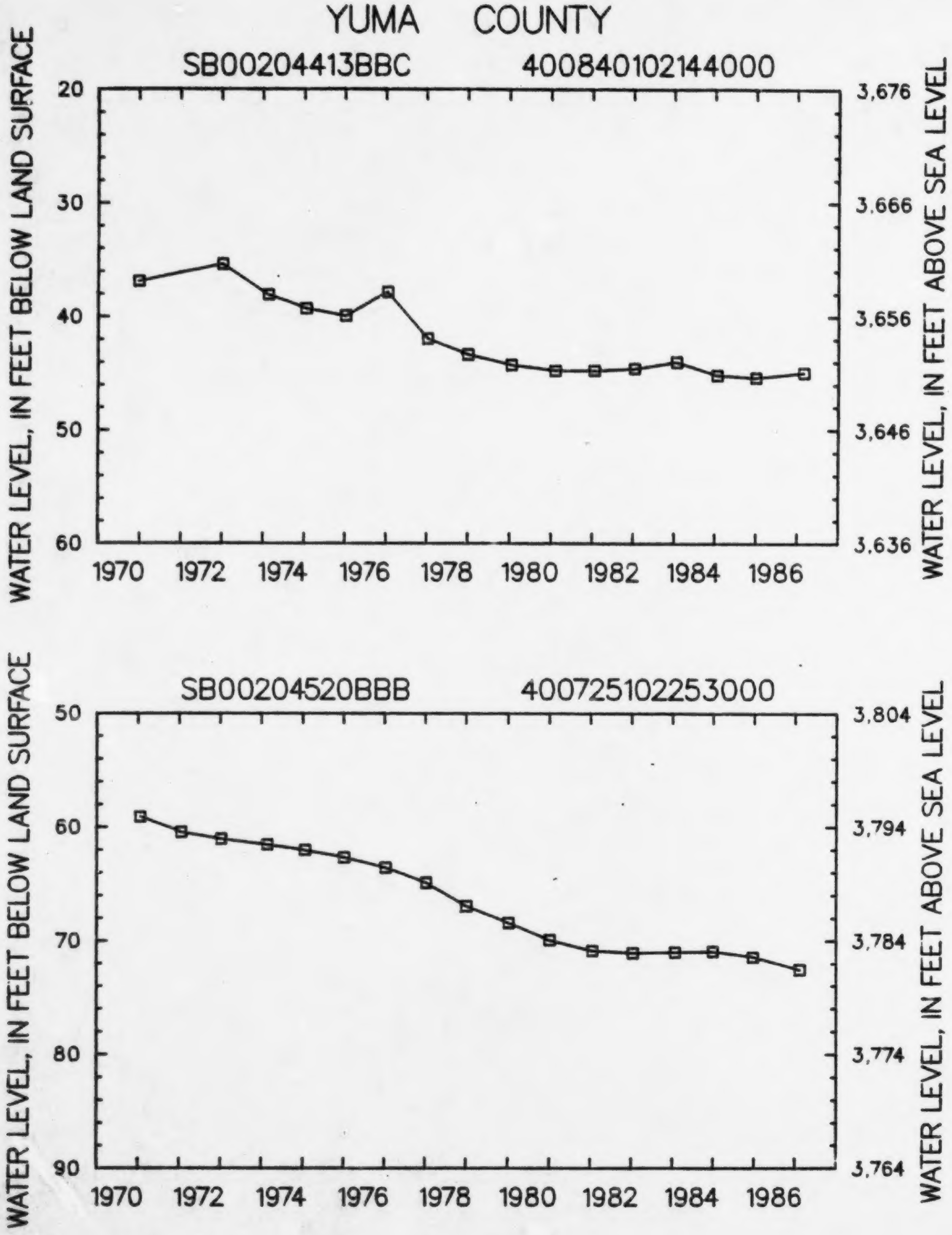


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

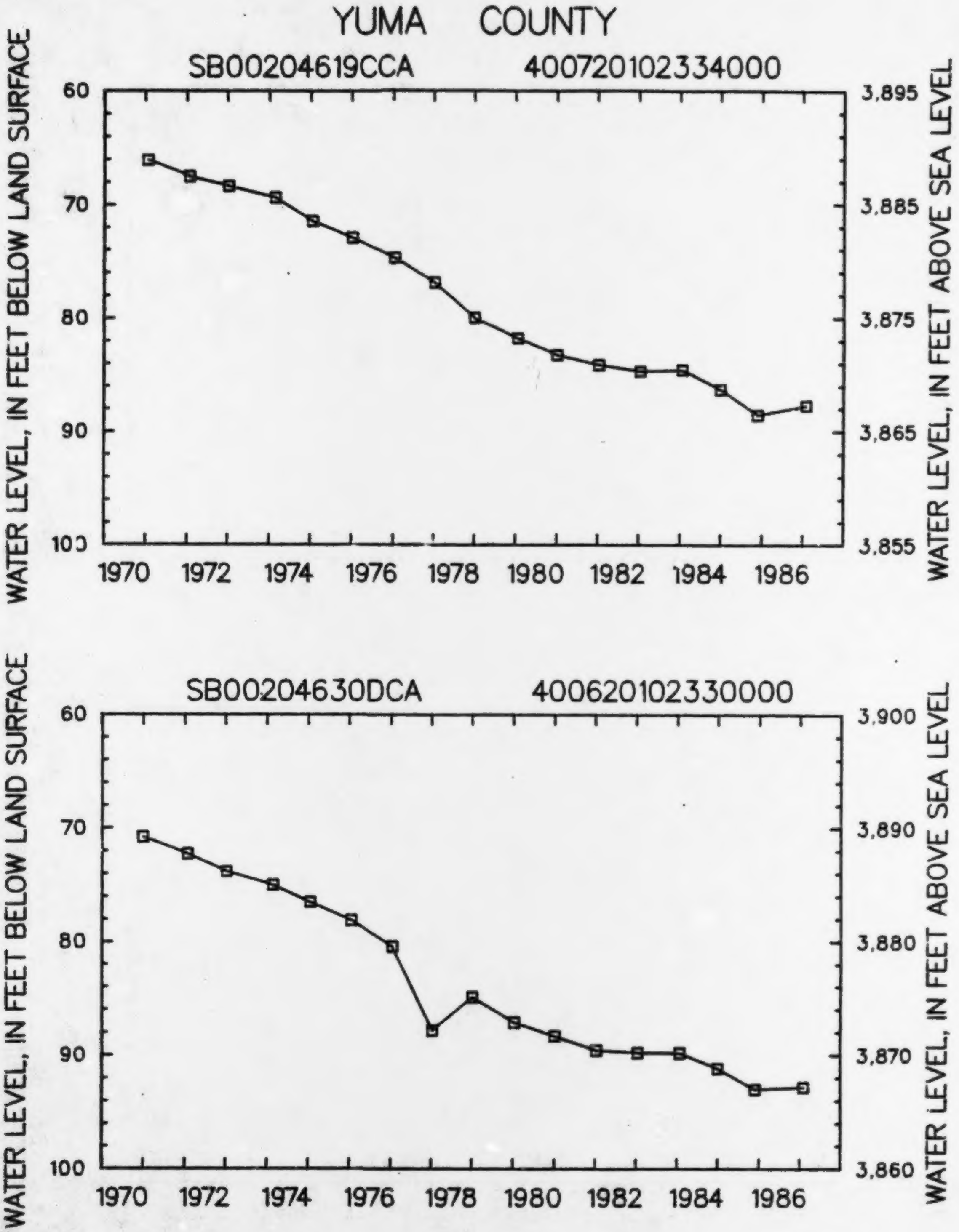
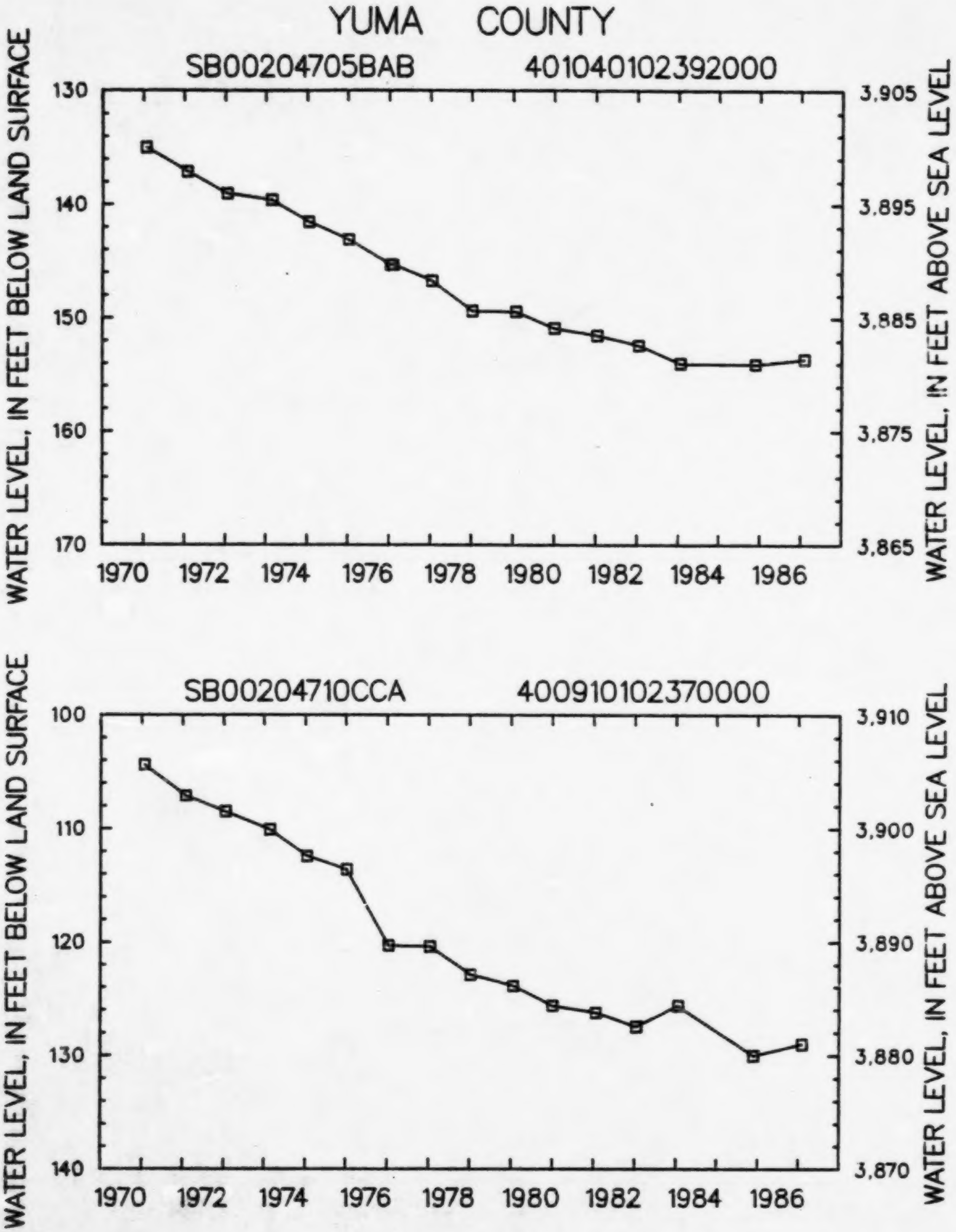


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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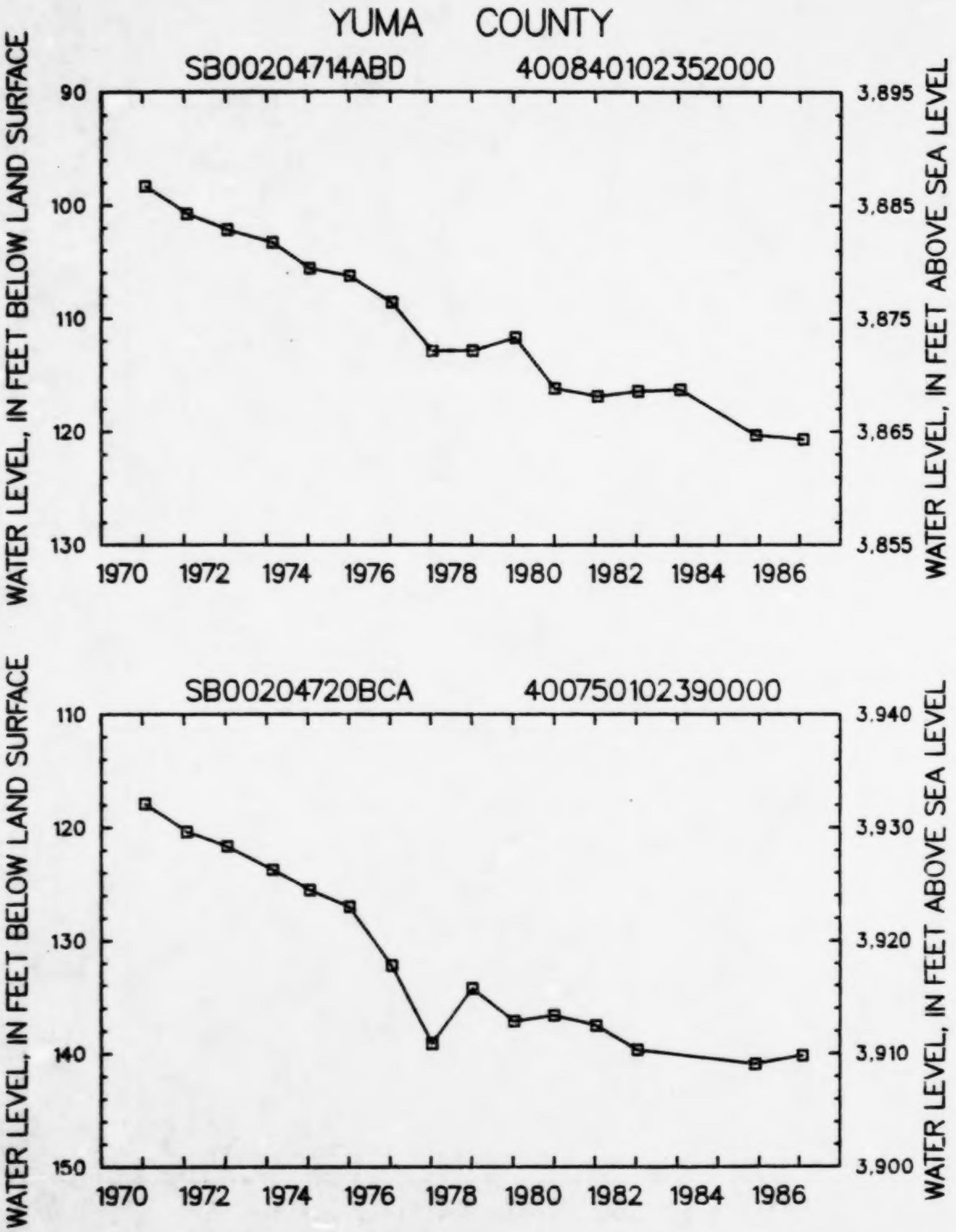
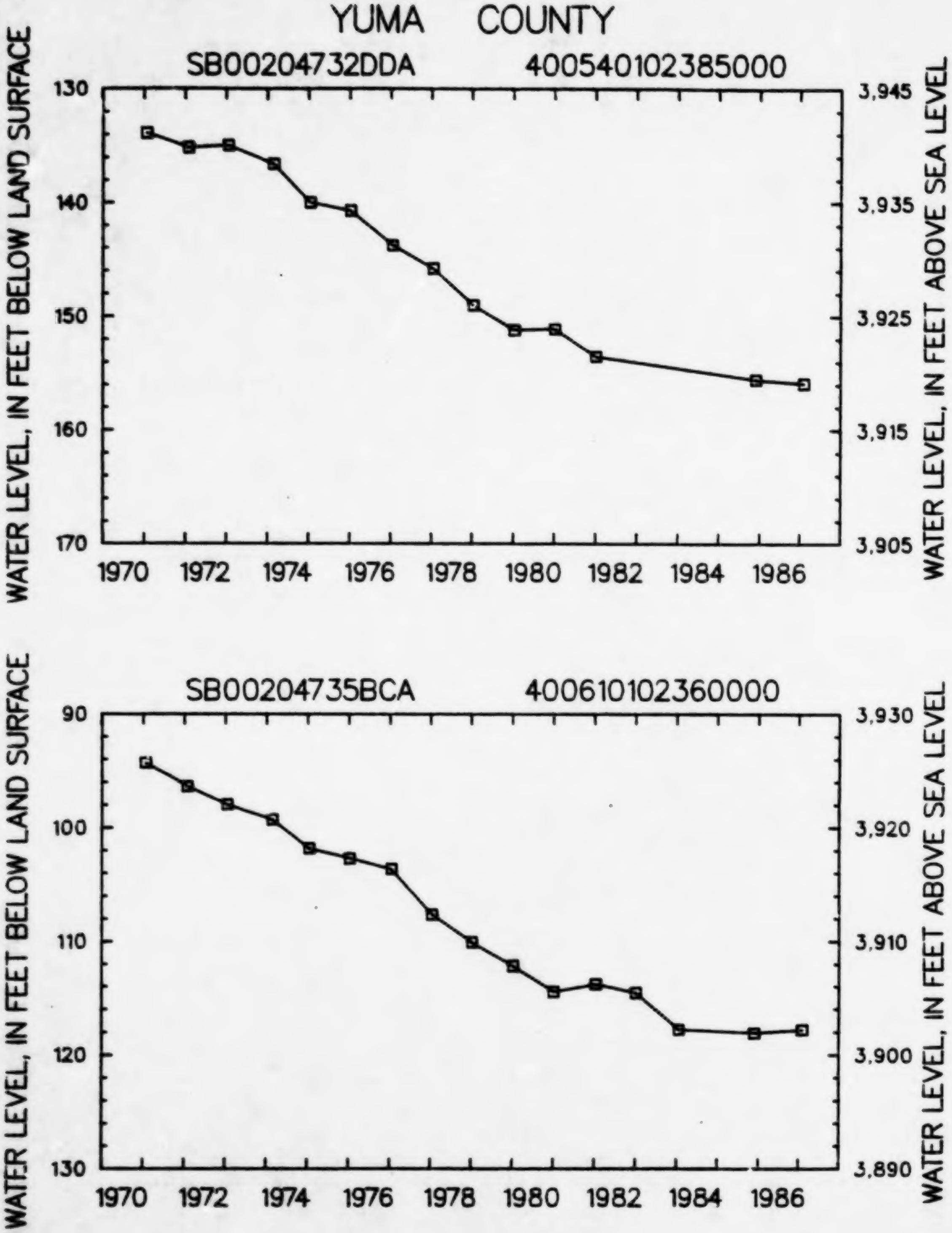


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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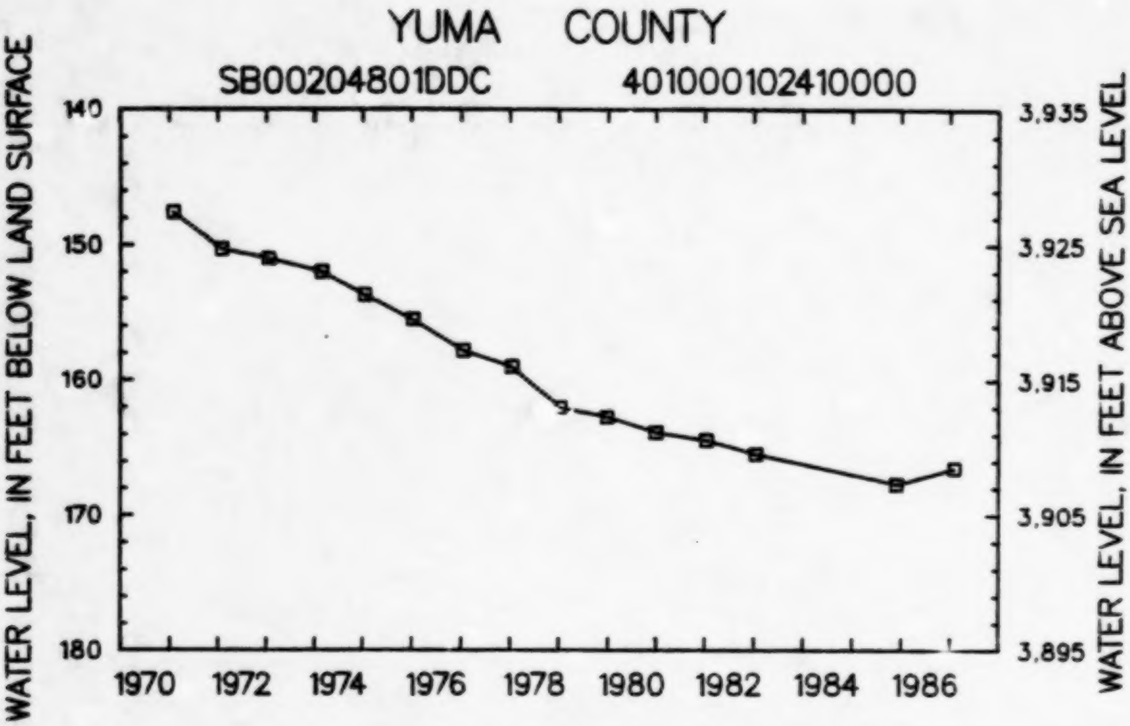


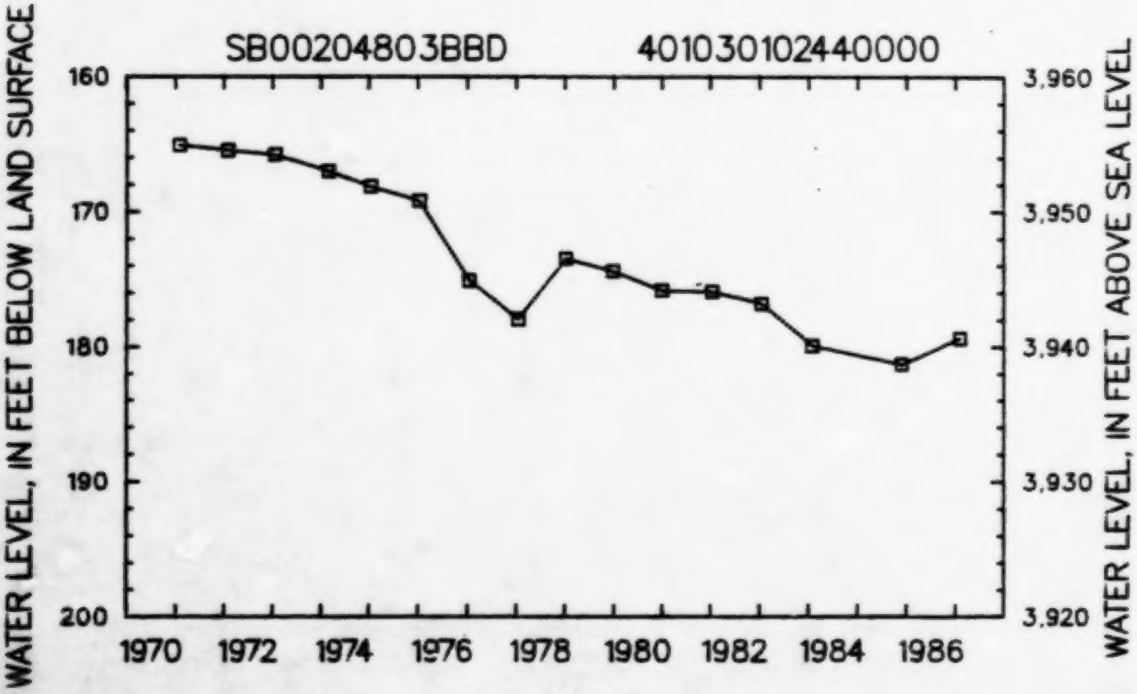
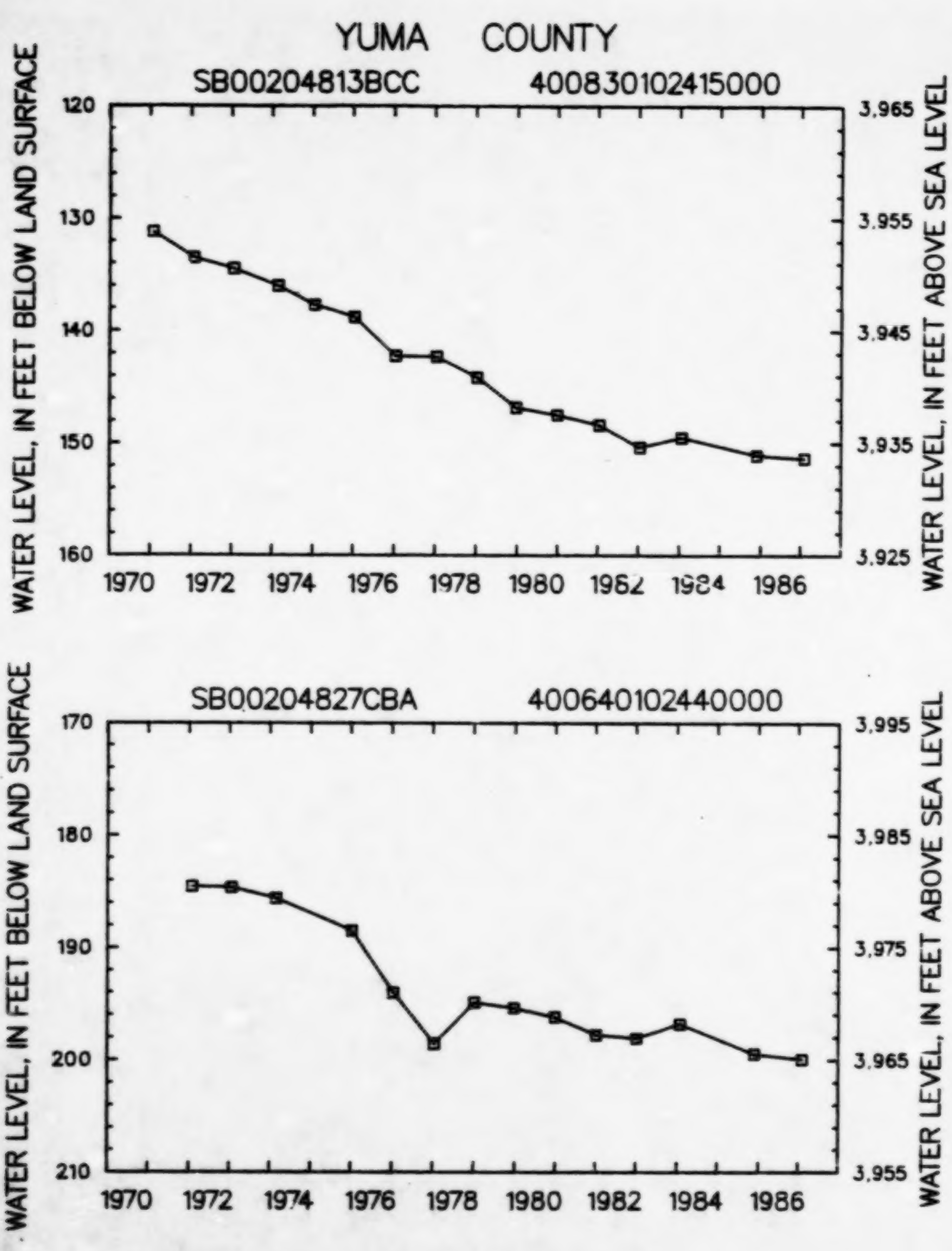


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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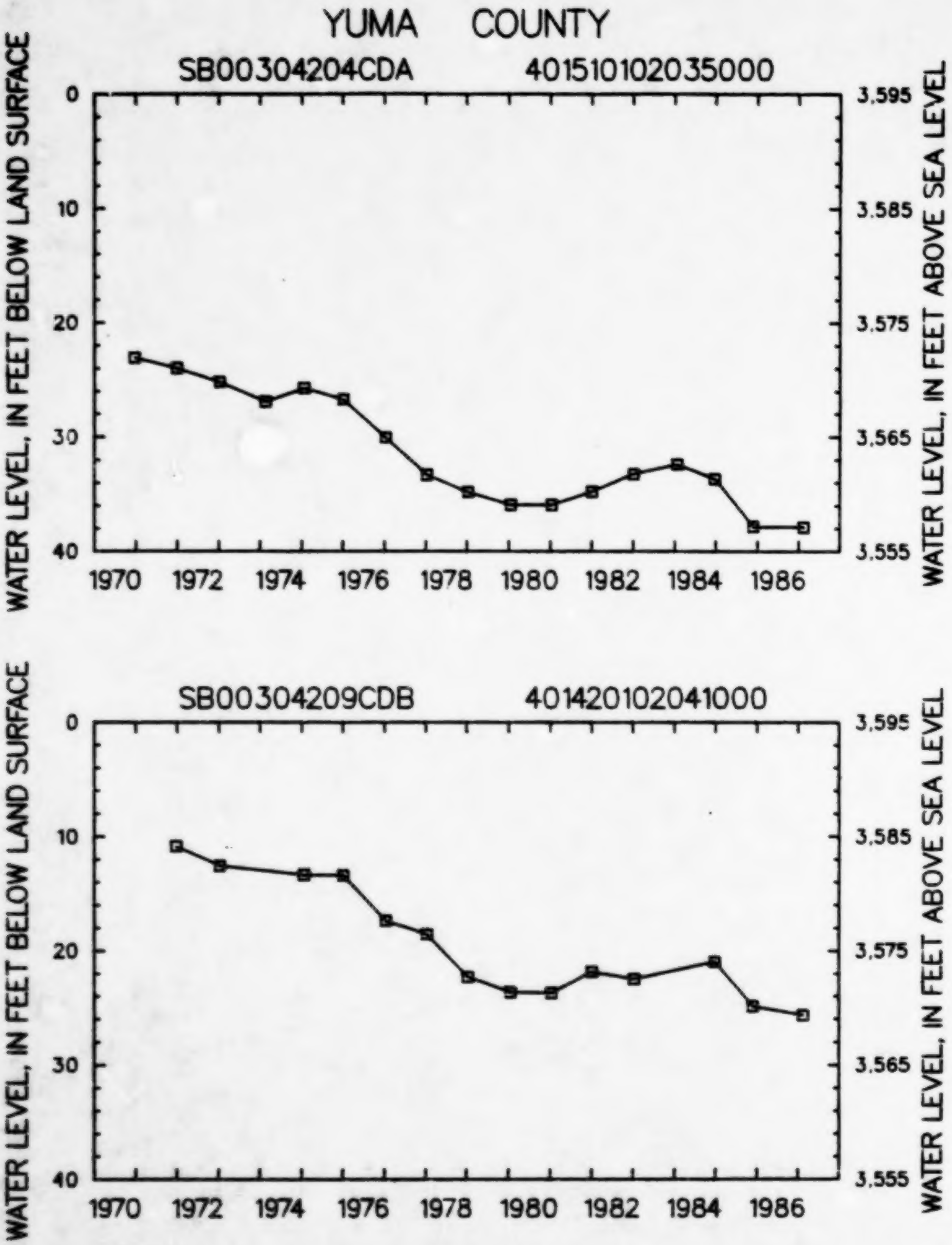

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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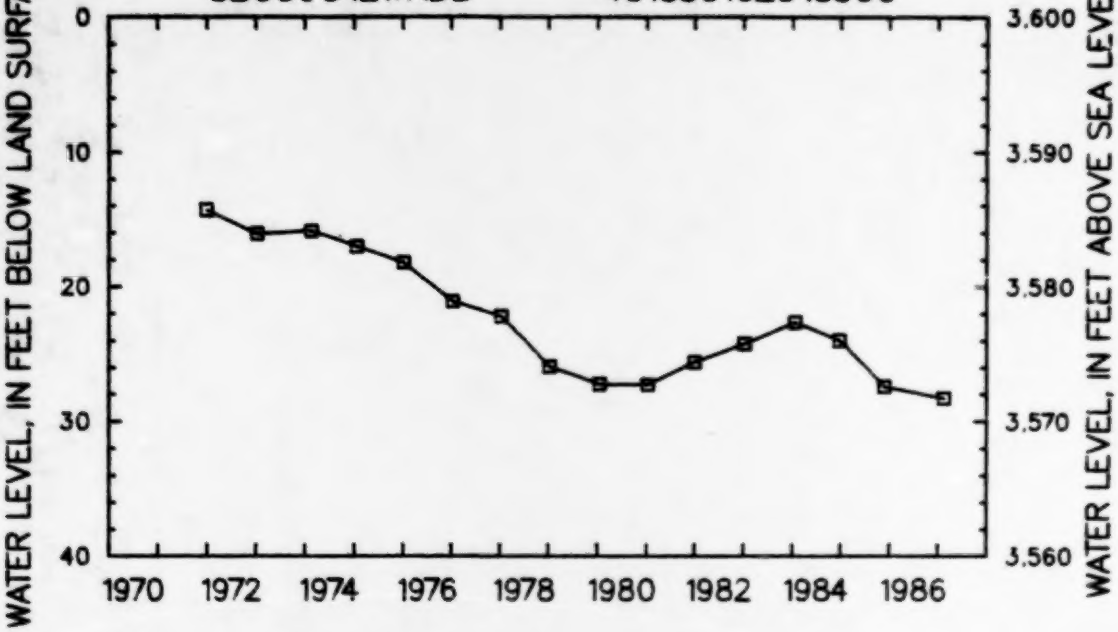
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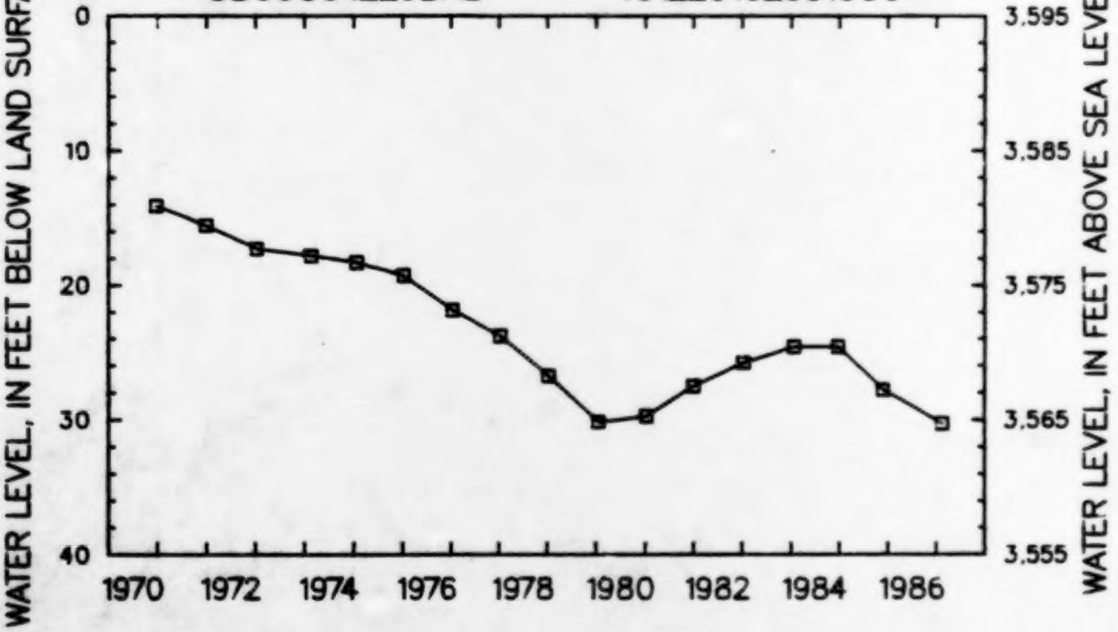
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Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

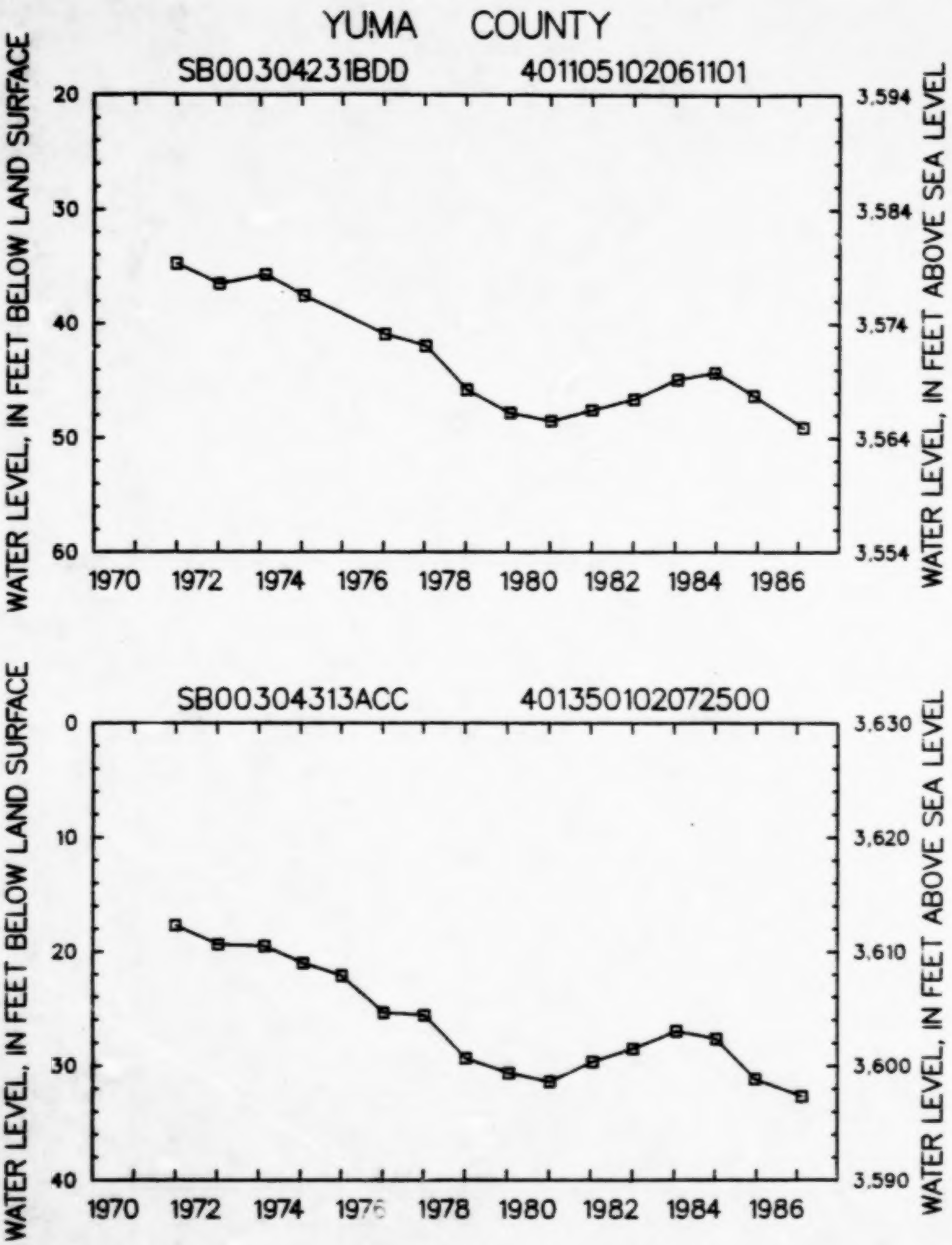
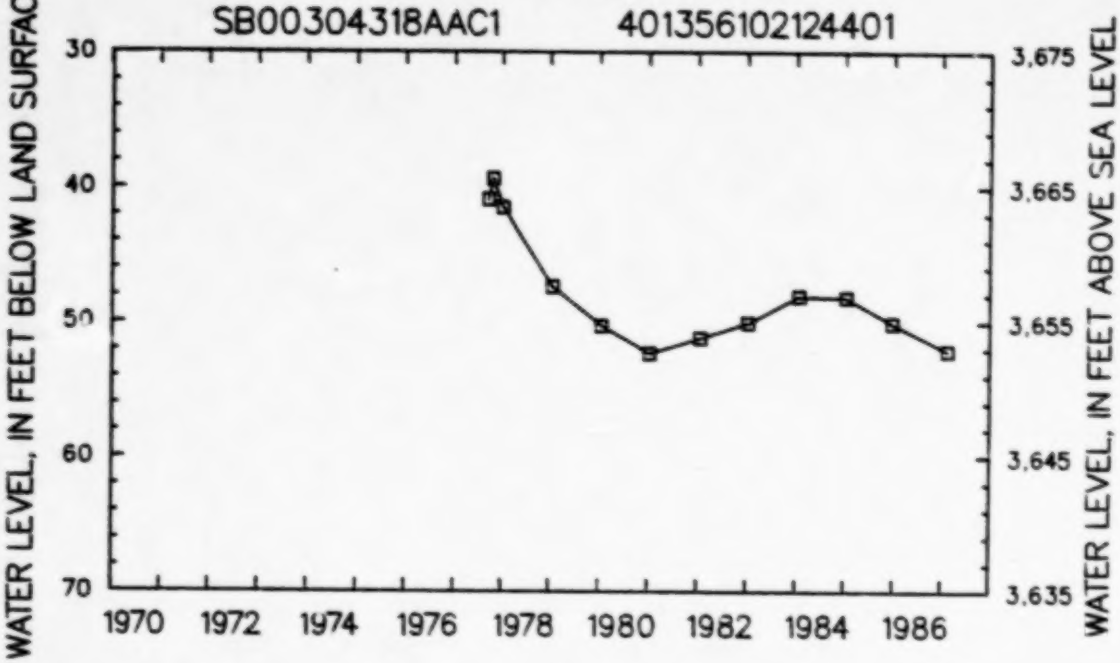


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY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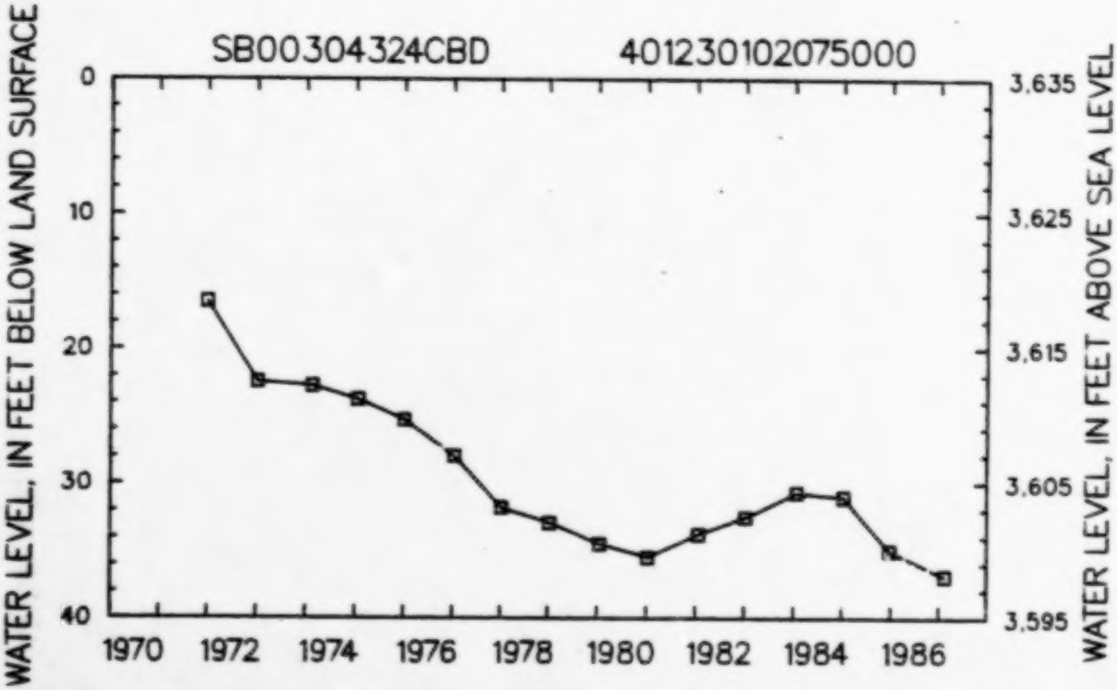
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Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

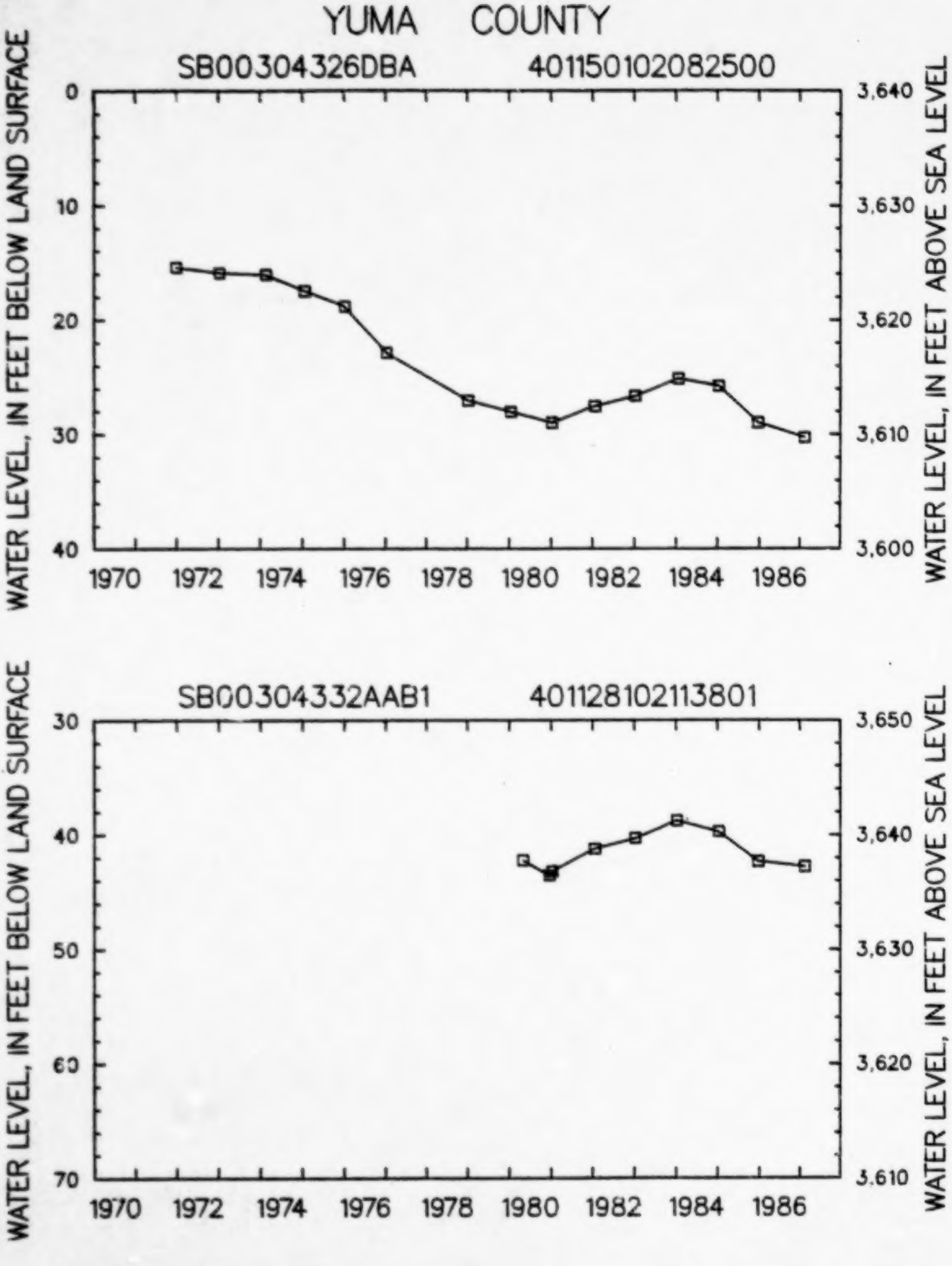
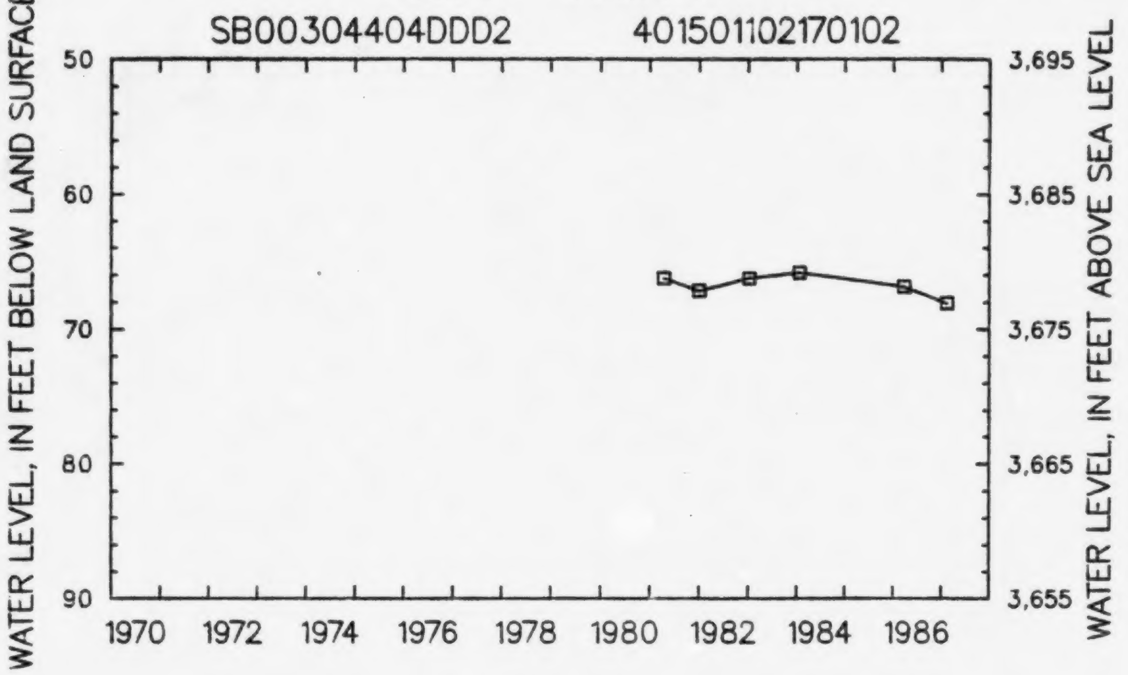


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY



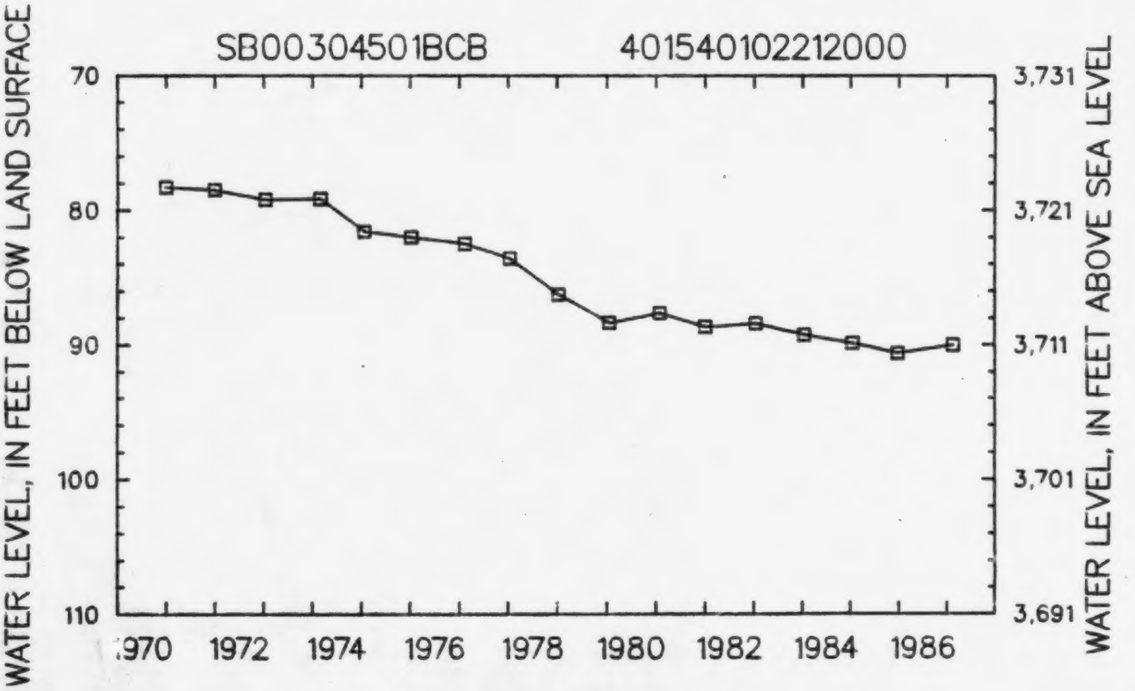
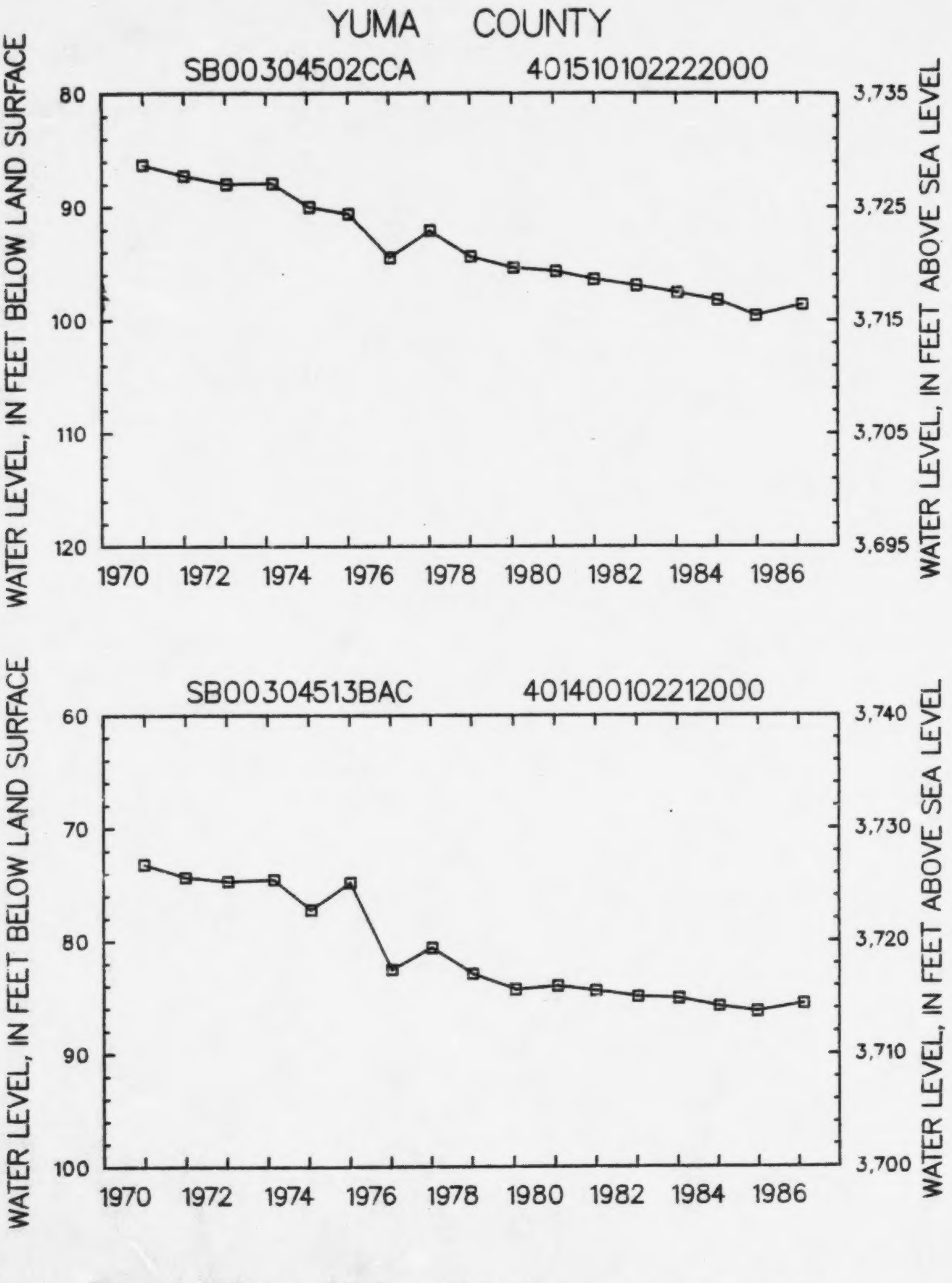


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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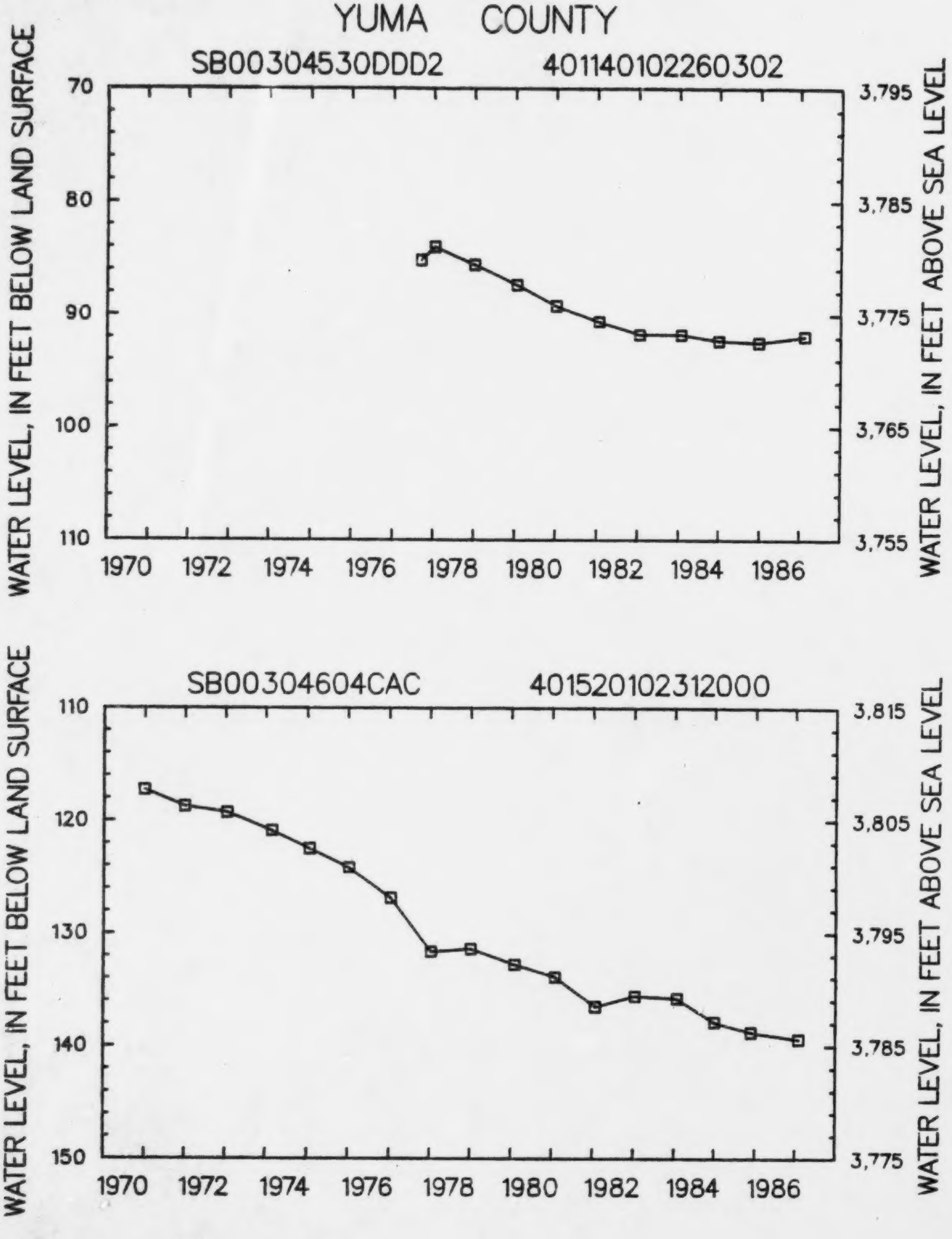

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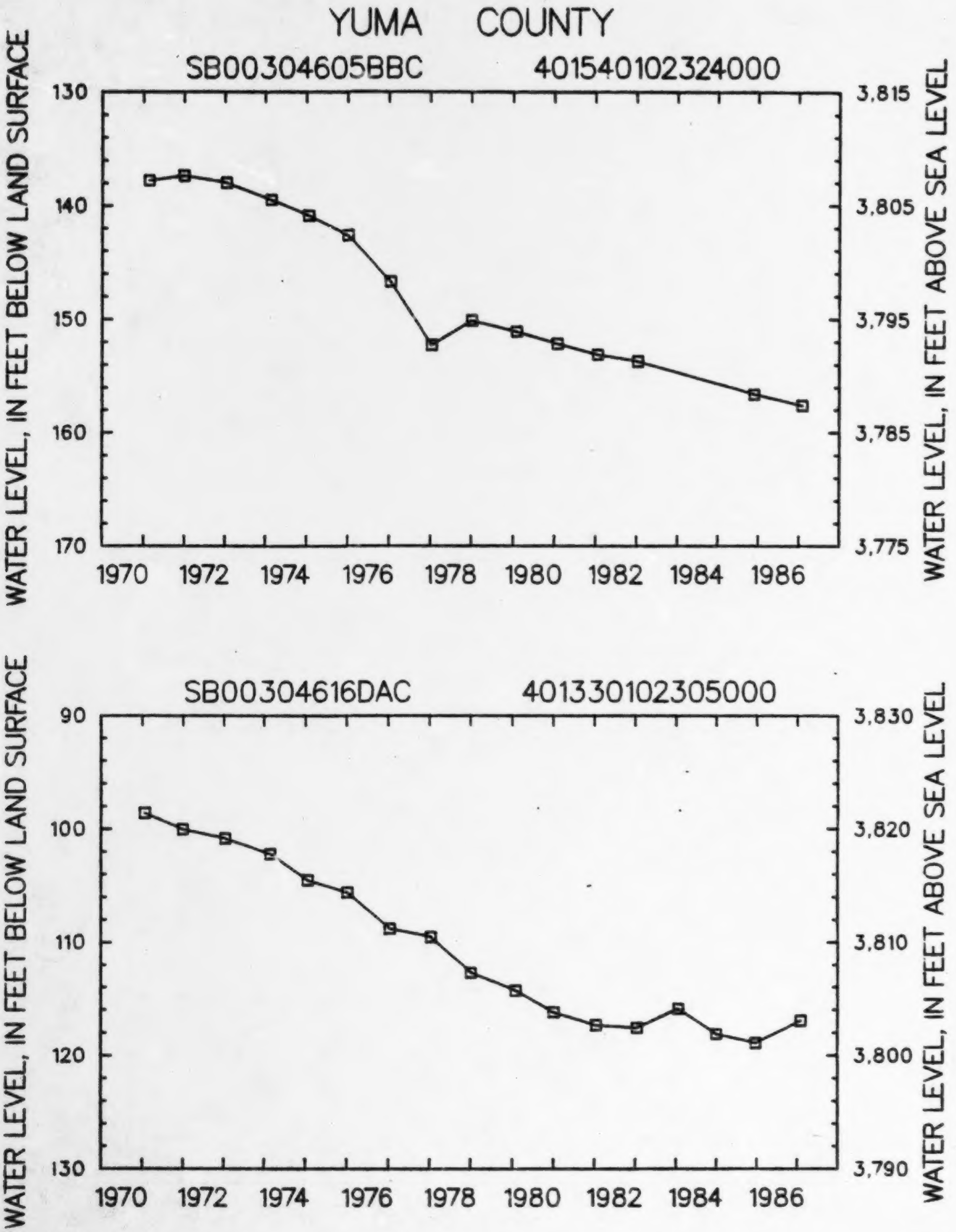

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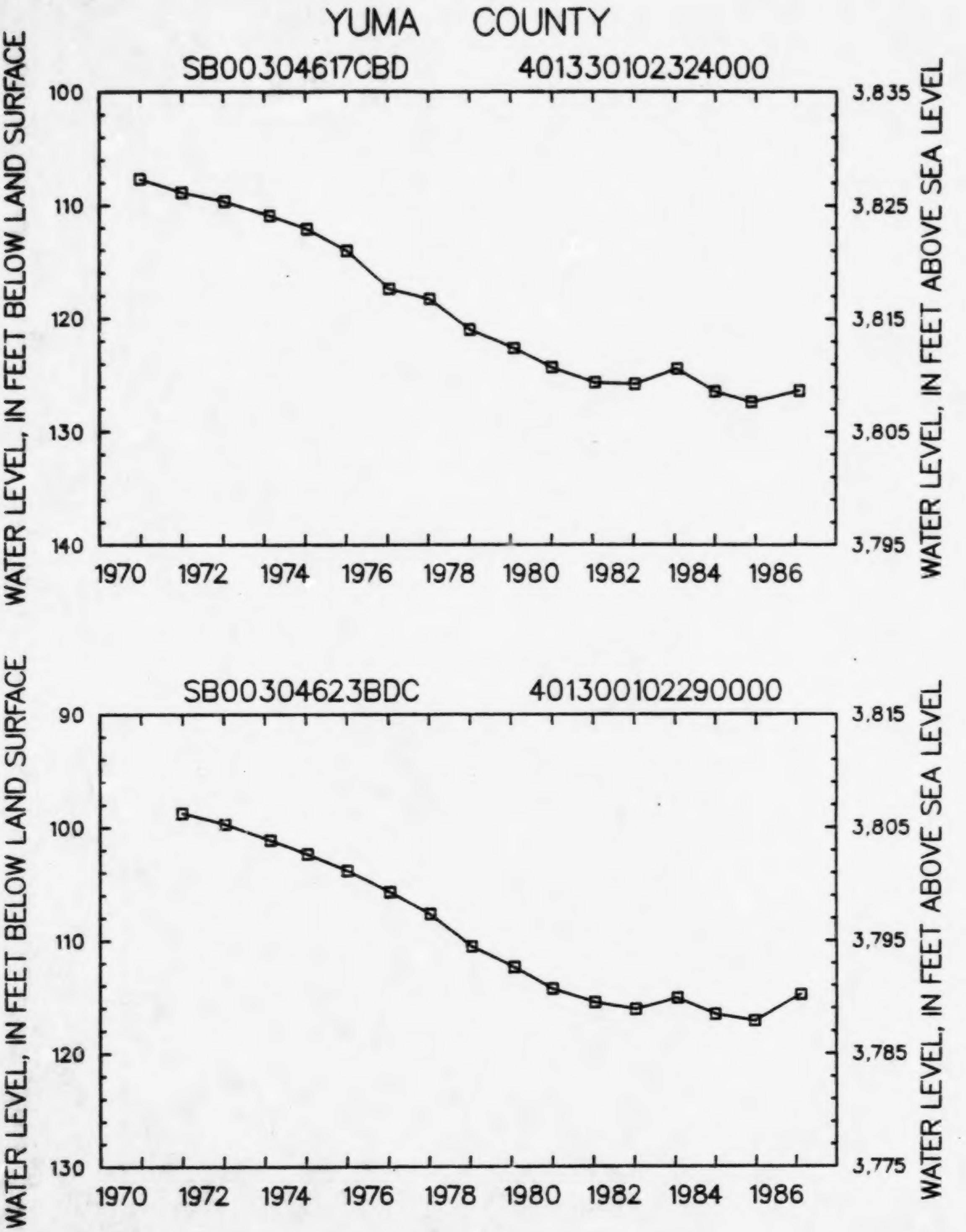

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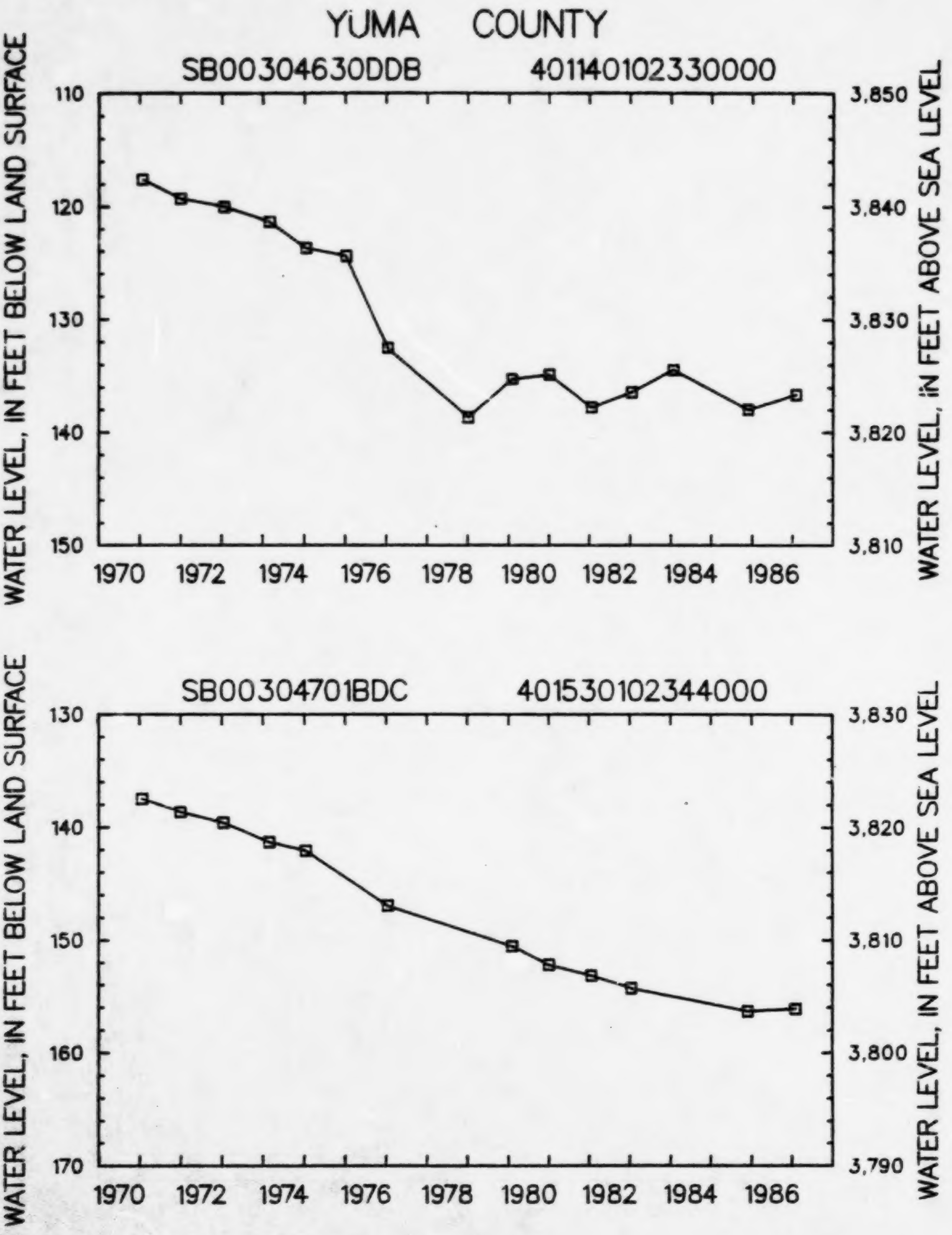

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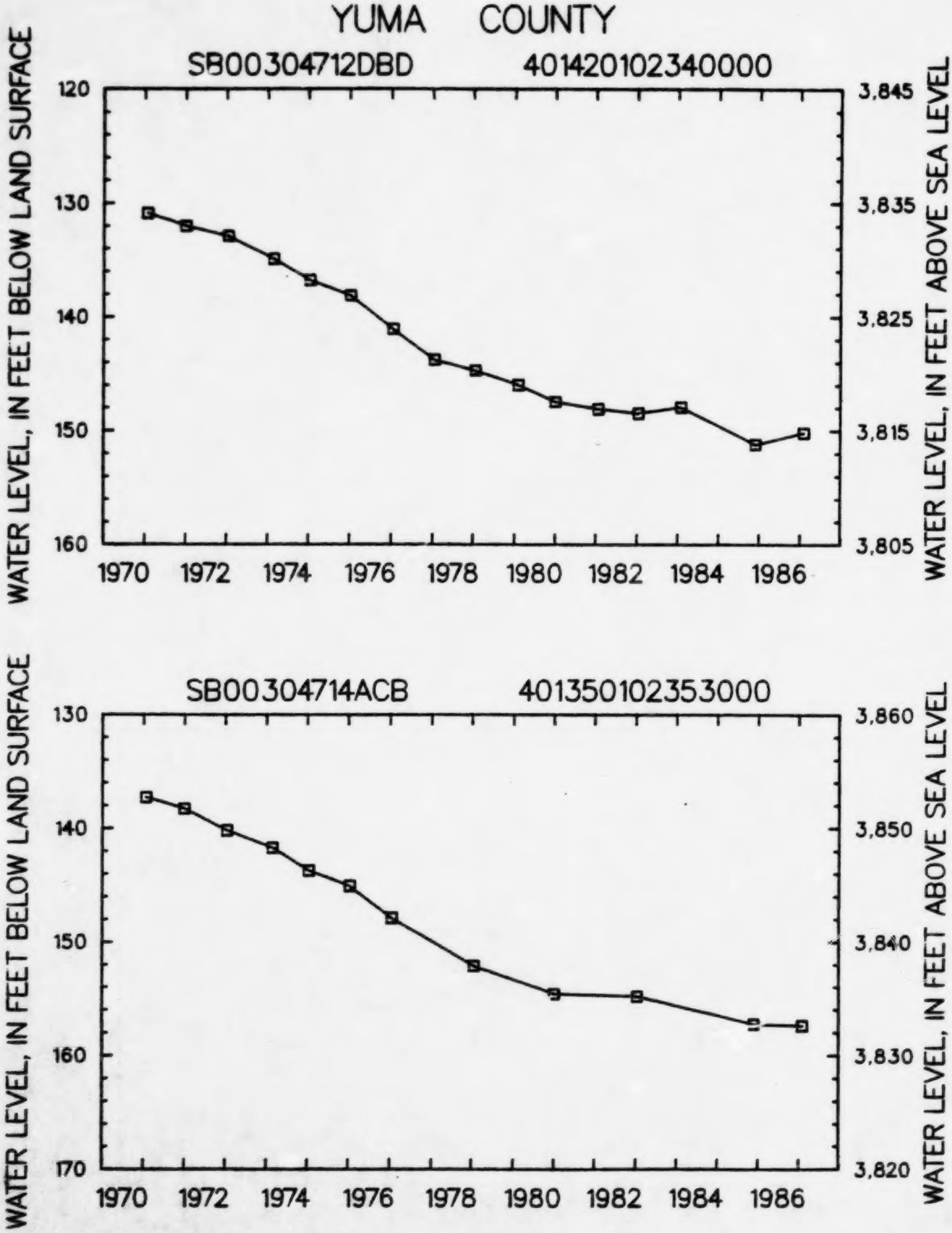

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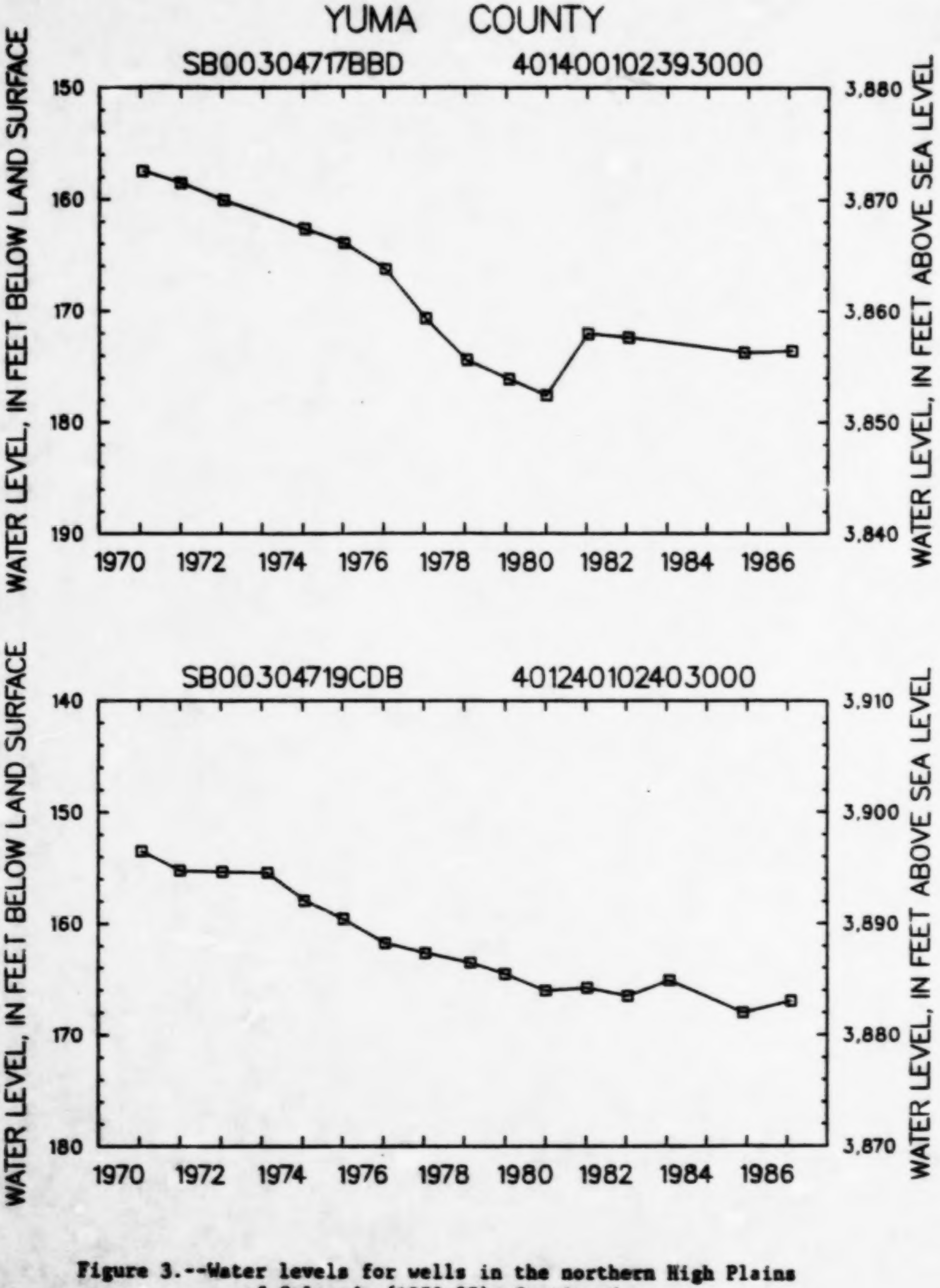

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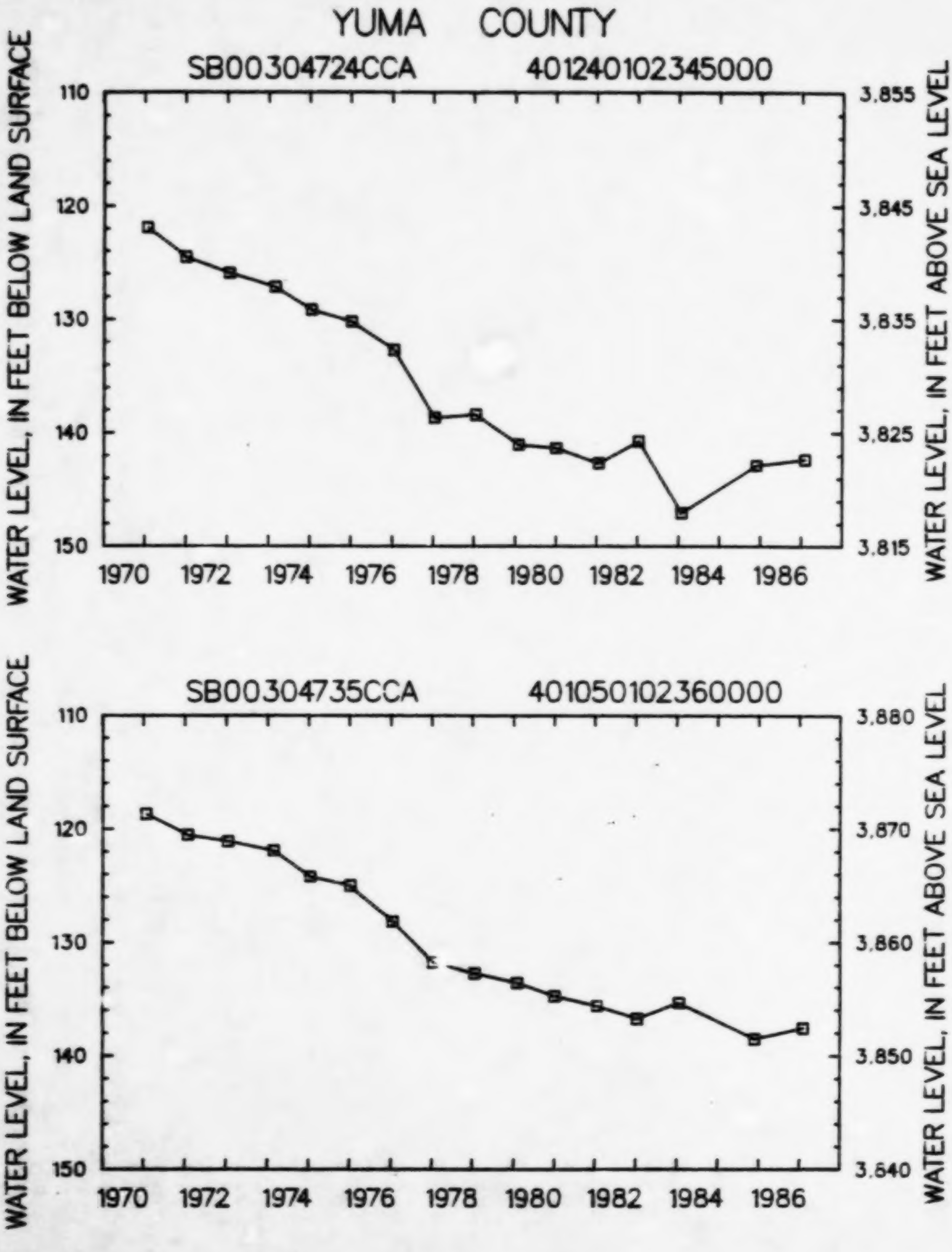

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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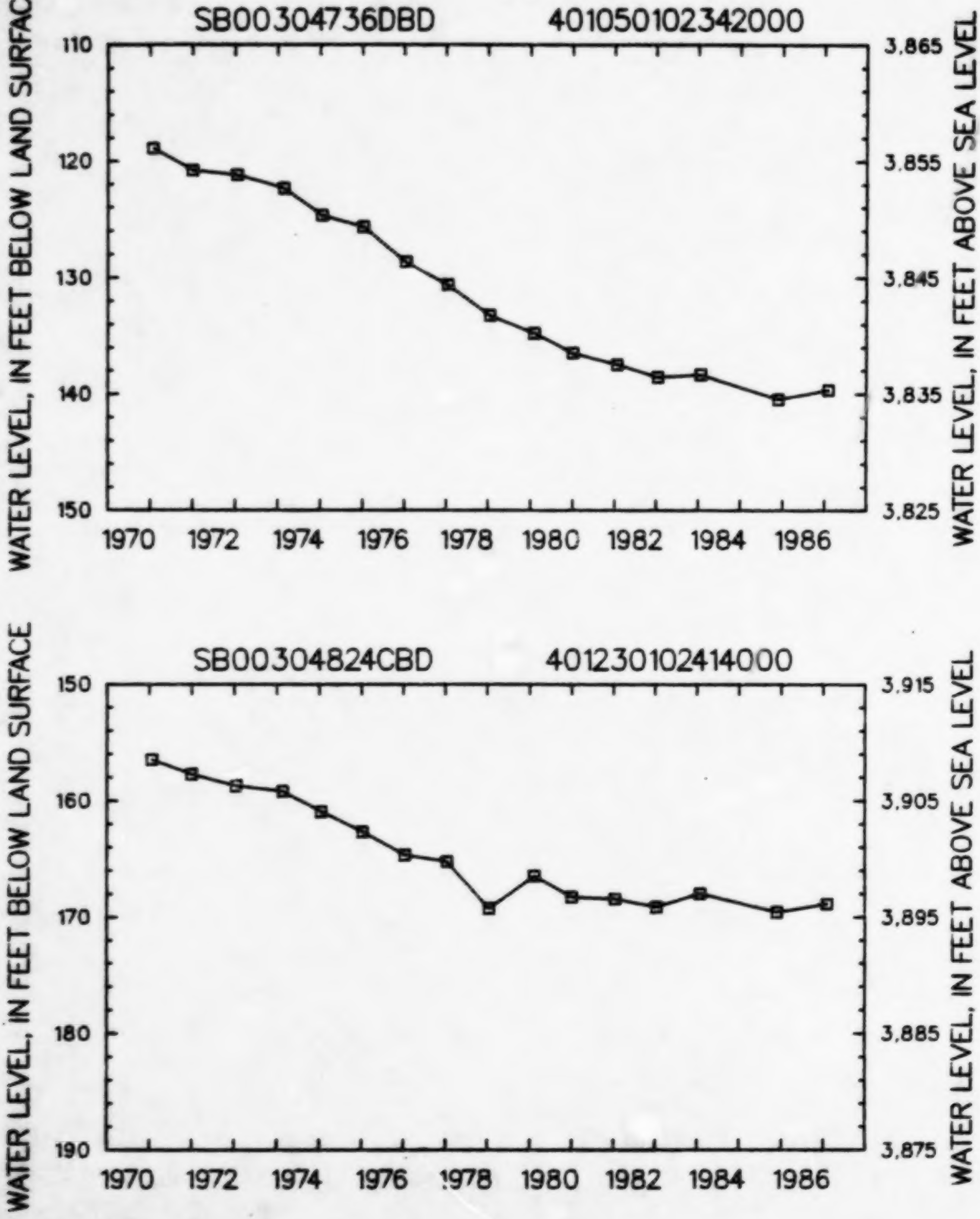

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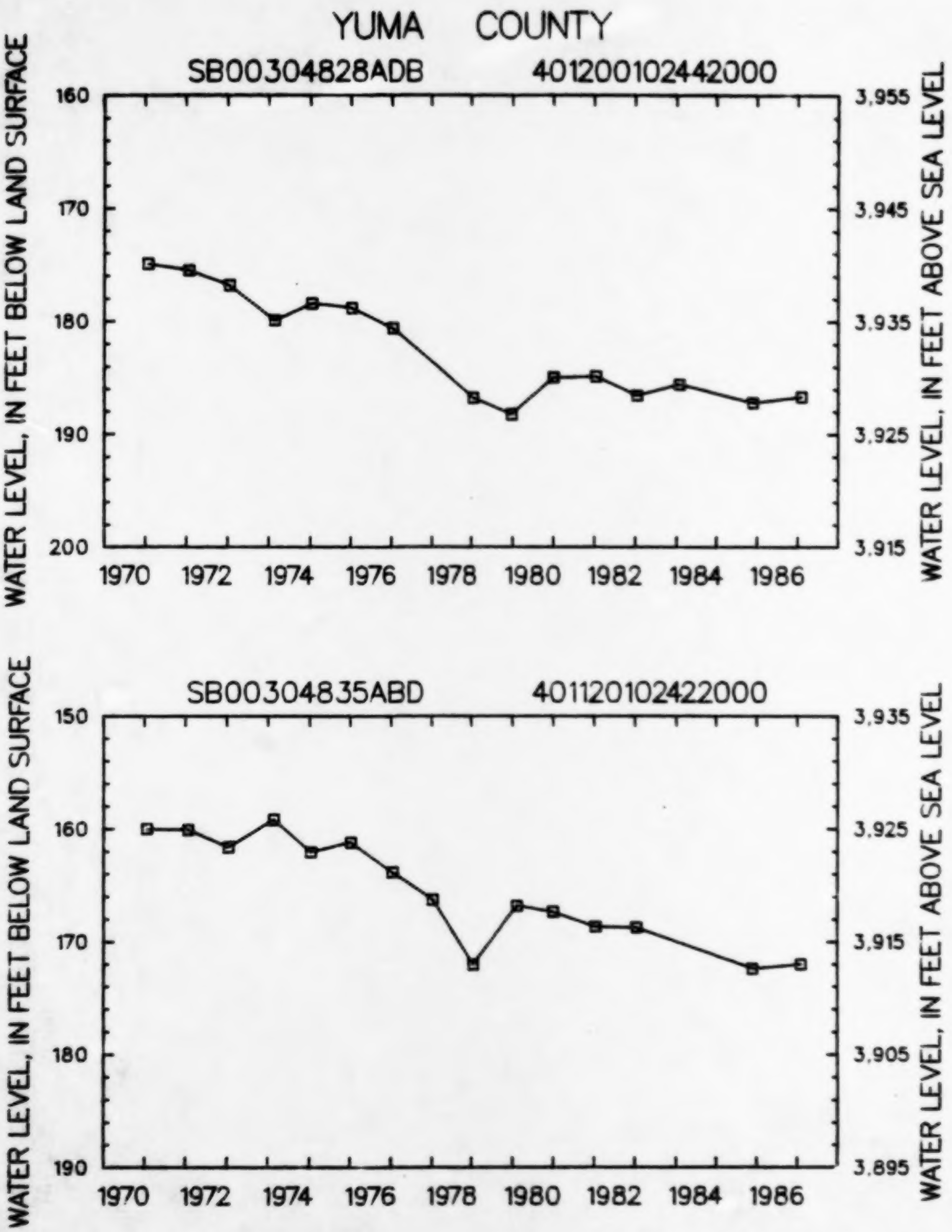

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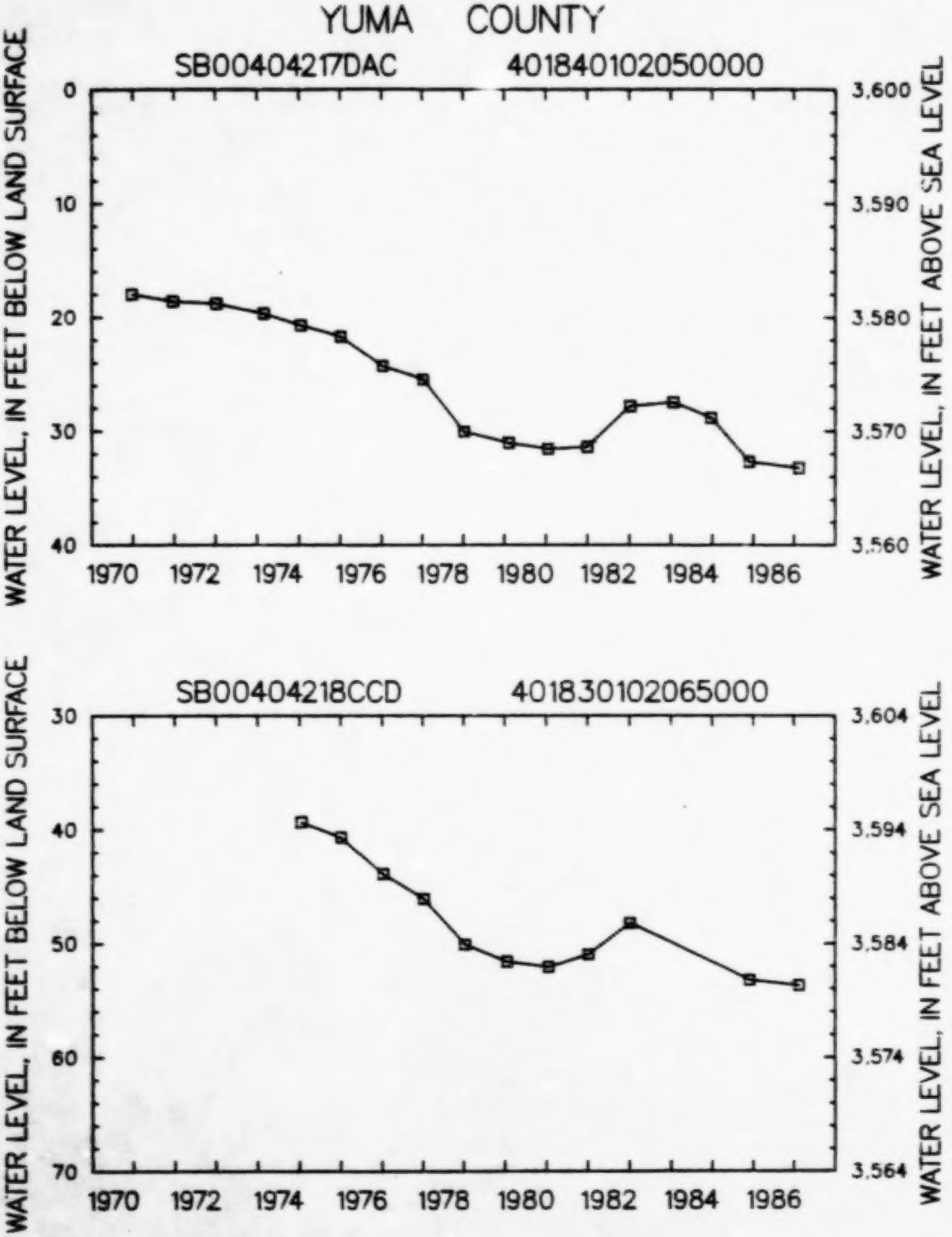
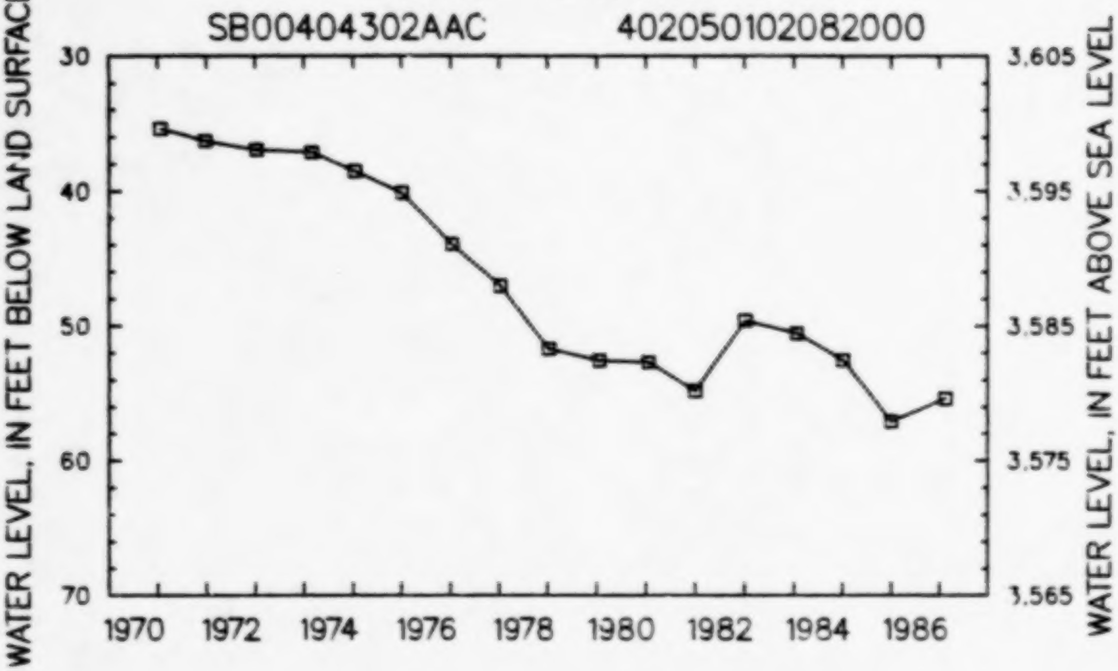


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY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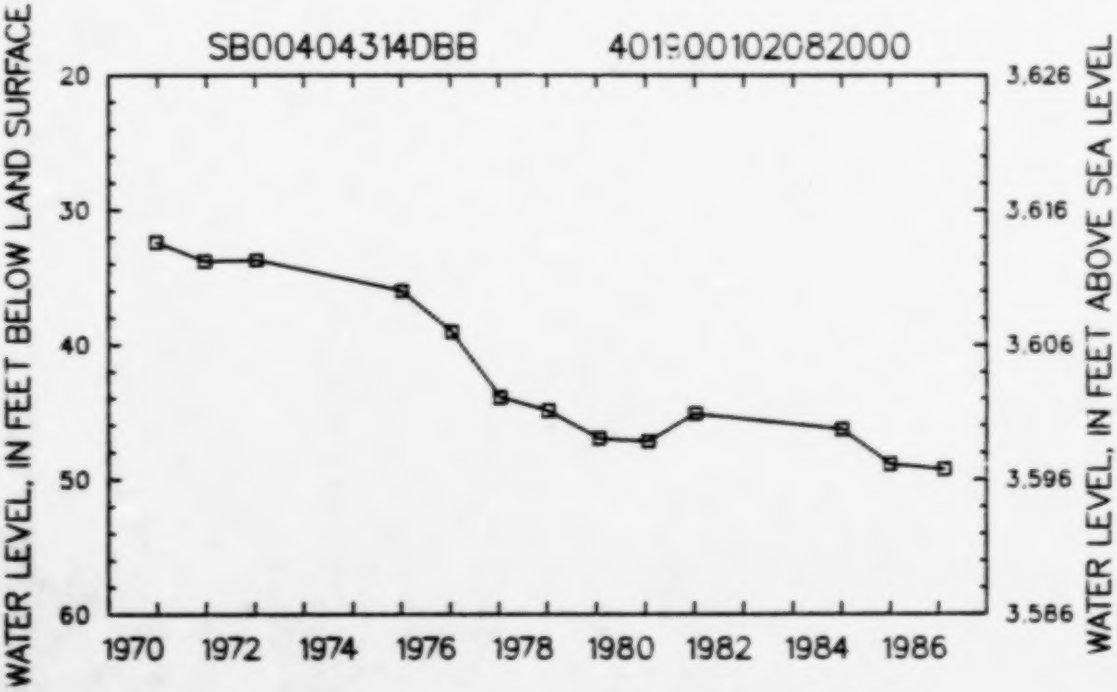
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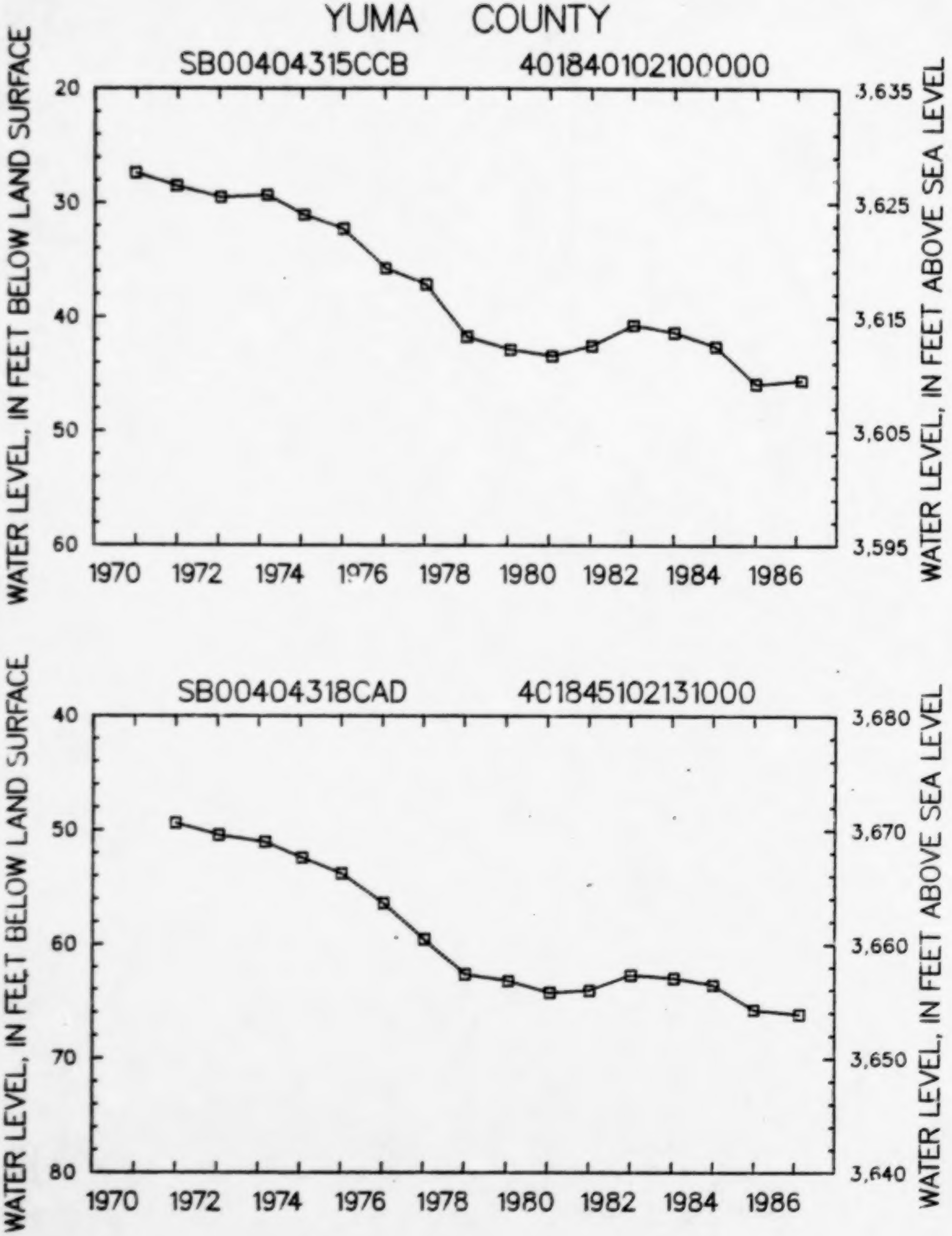
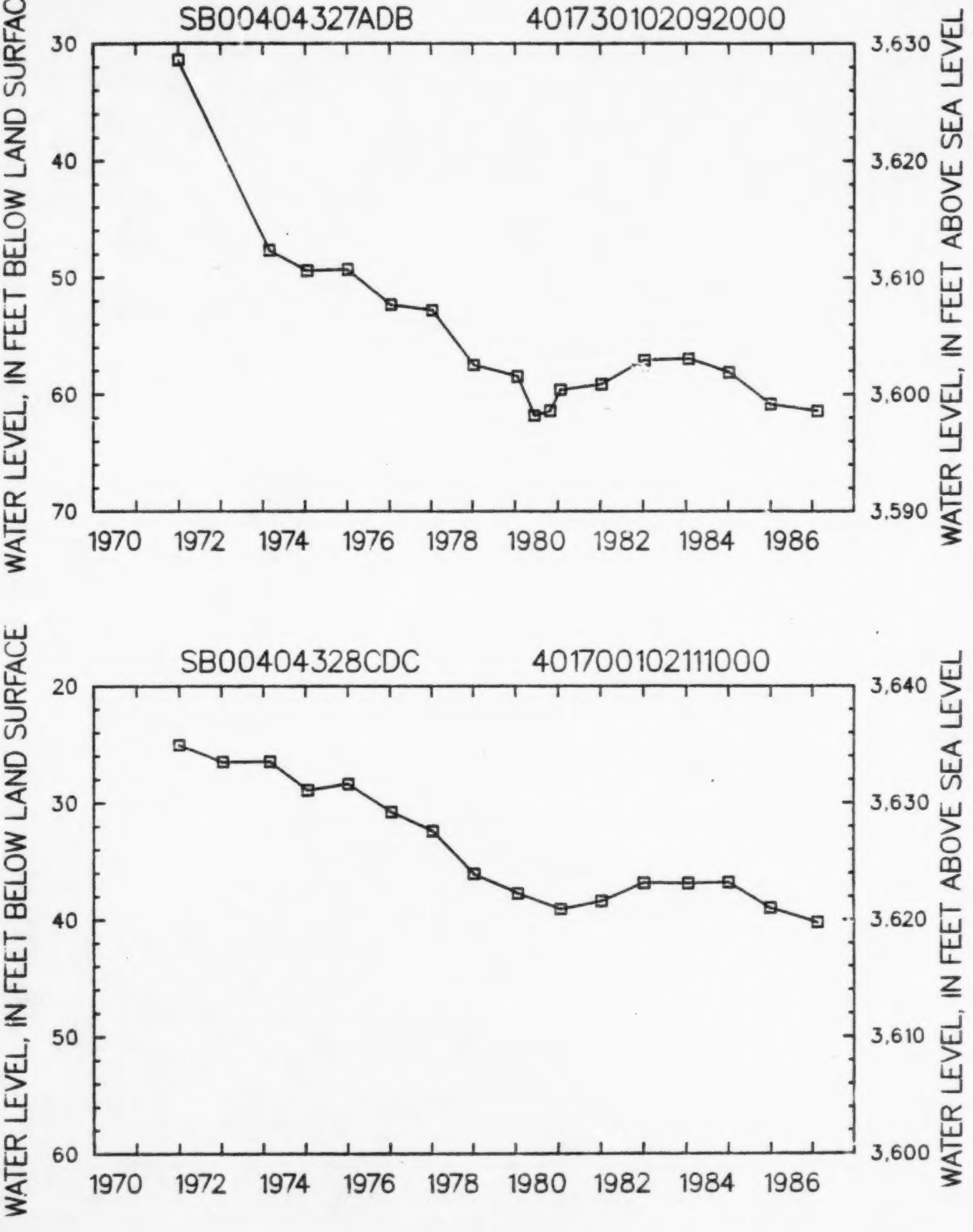


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY



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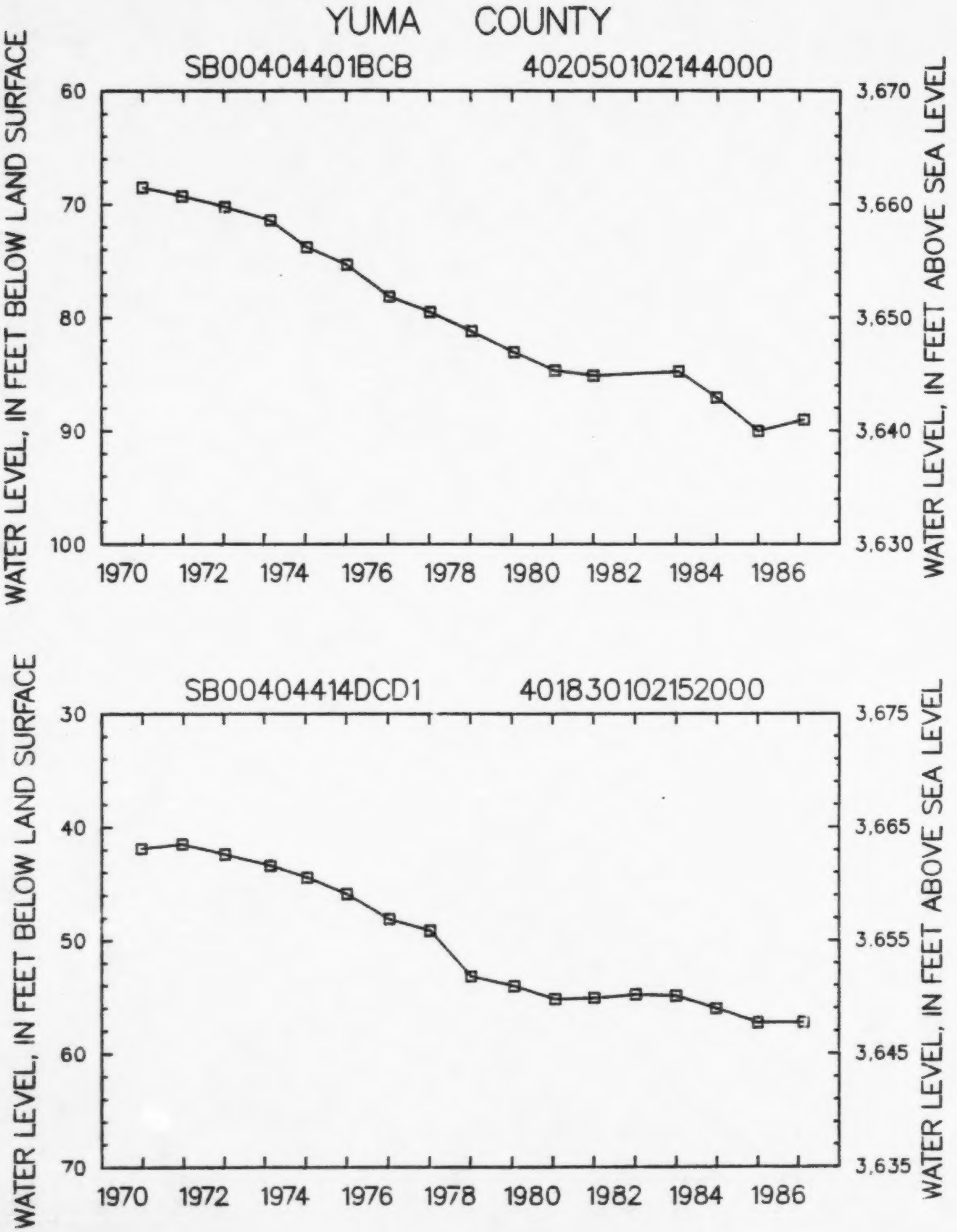

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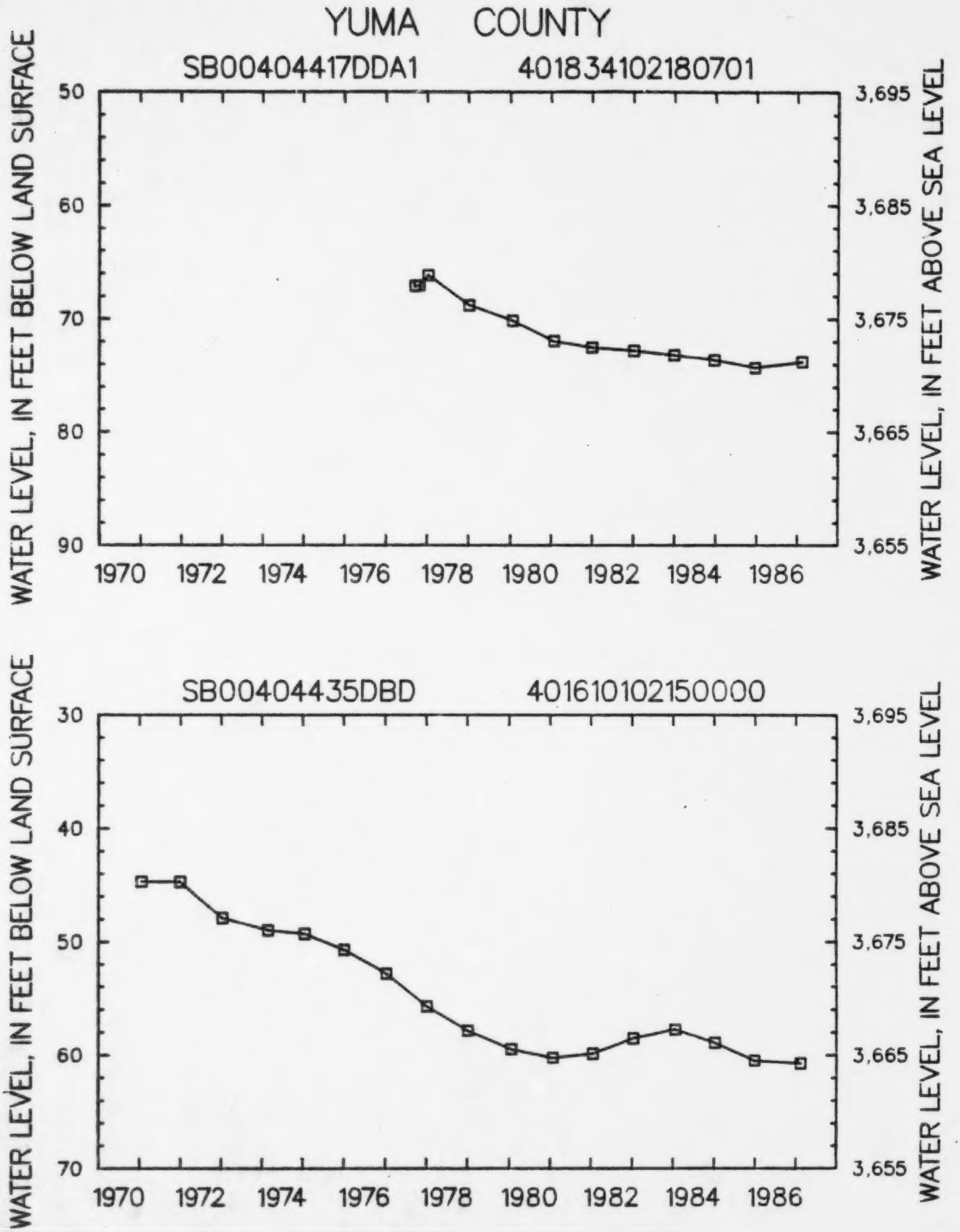

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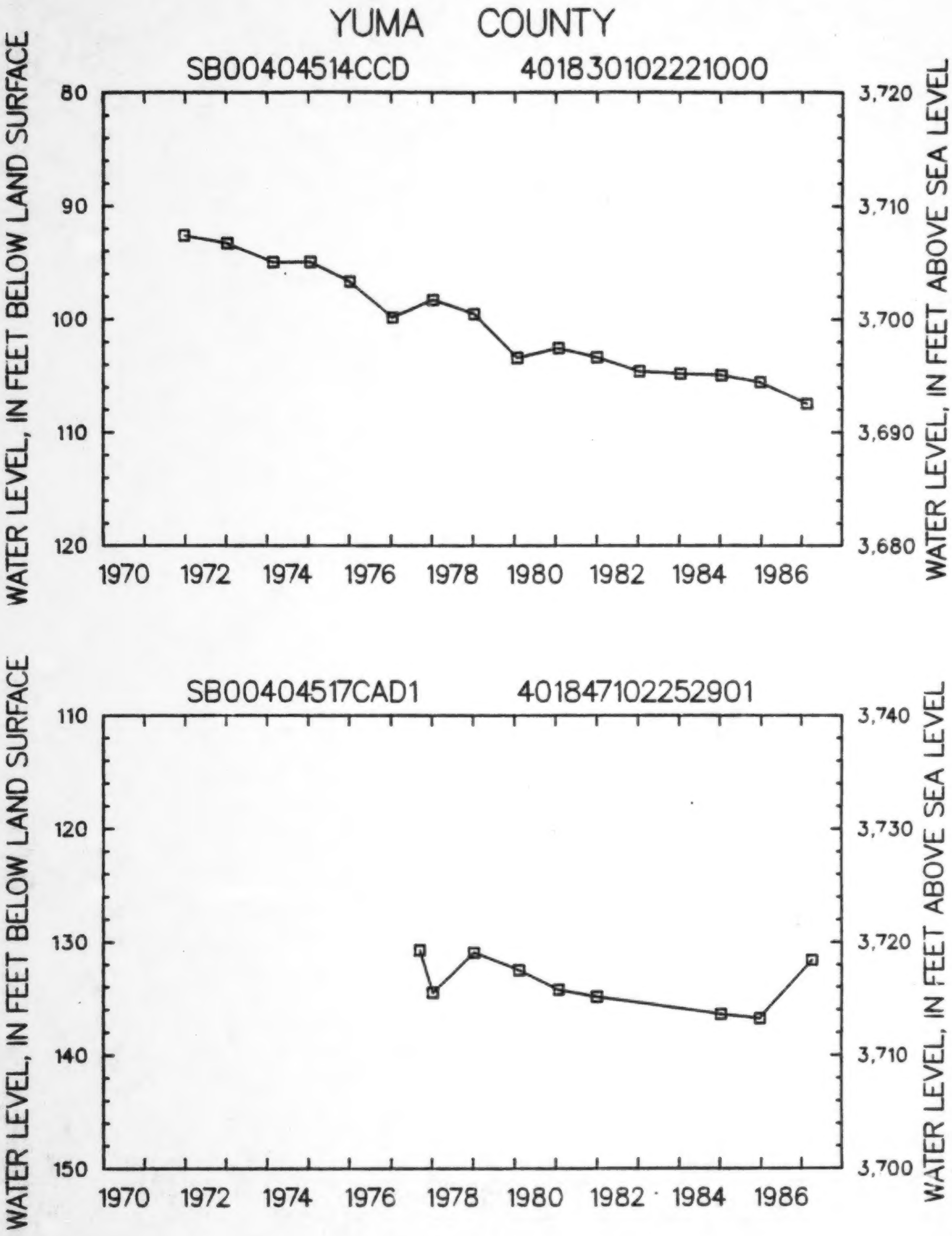

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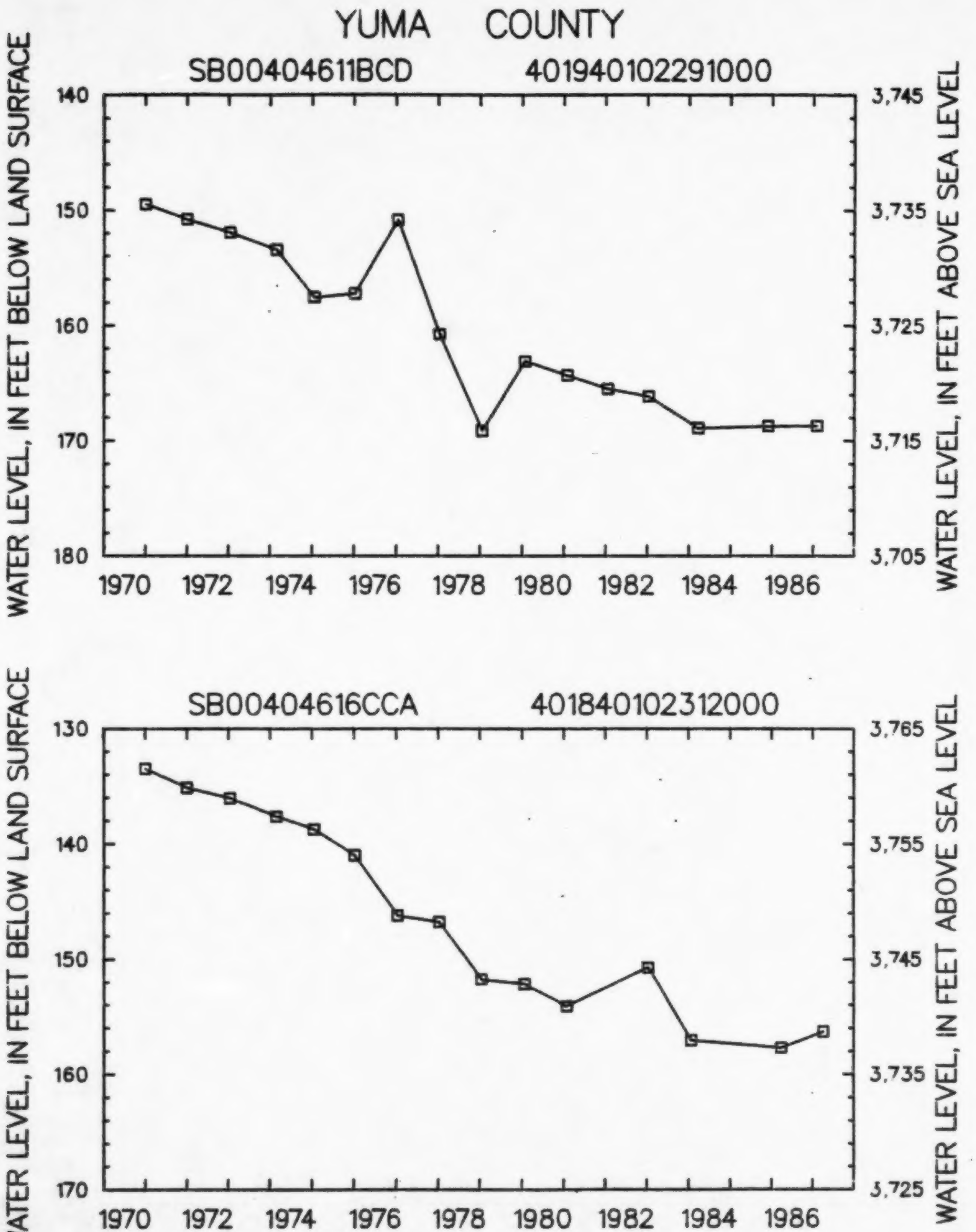

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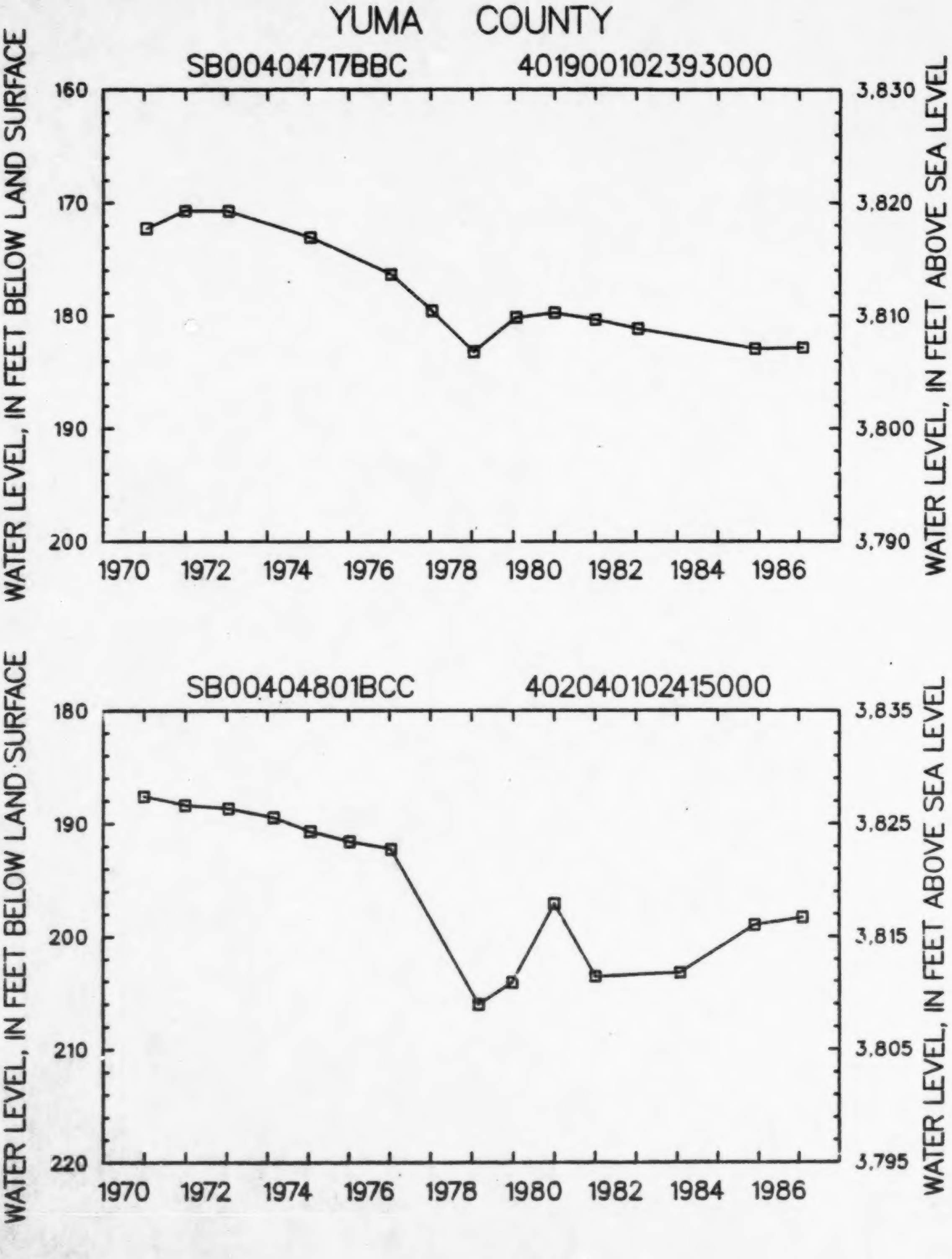
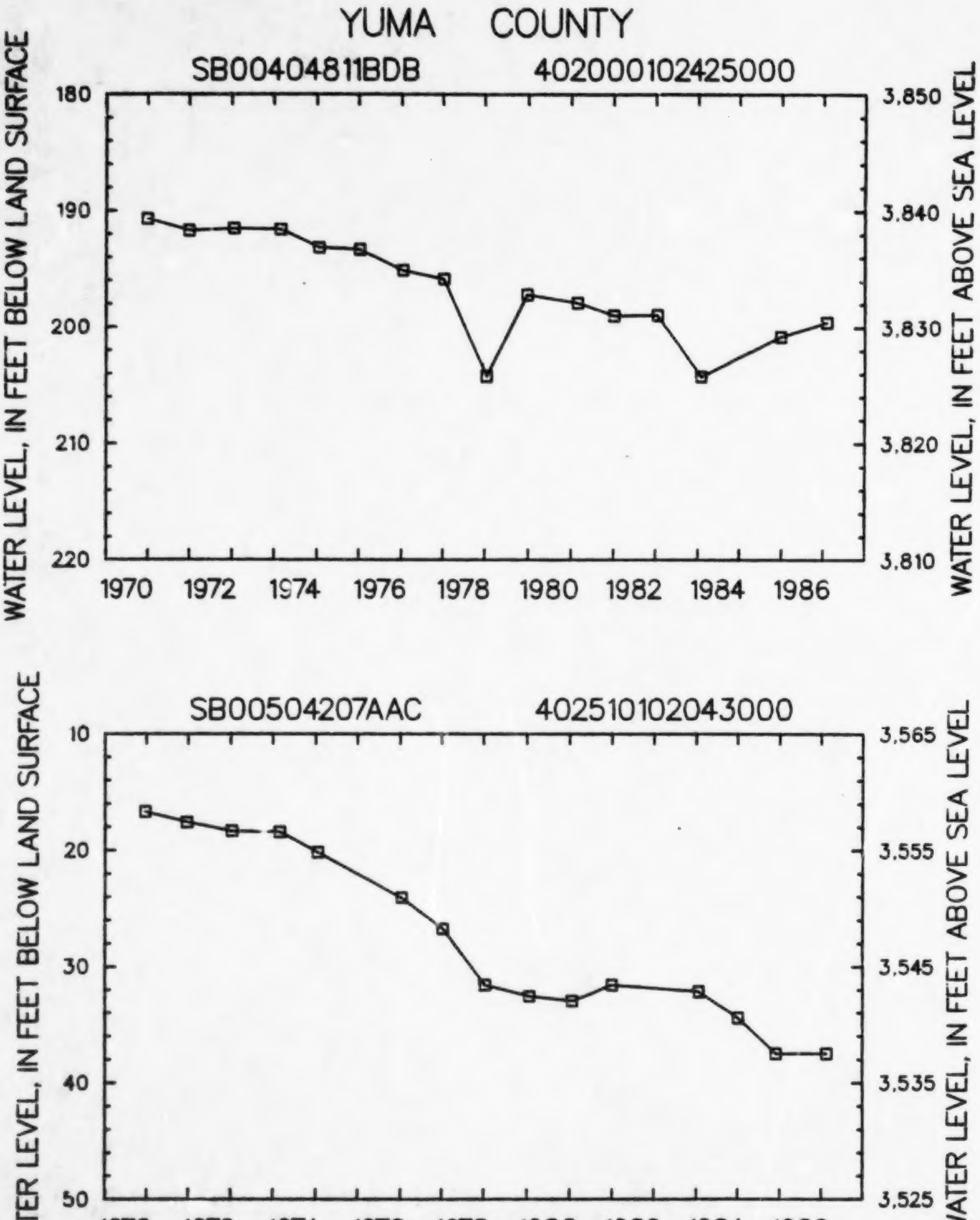


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



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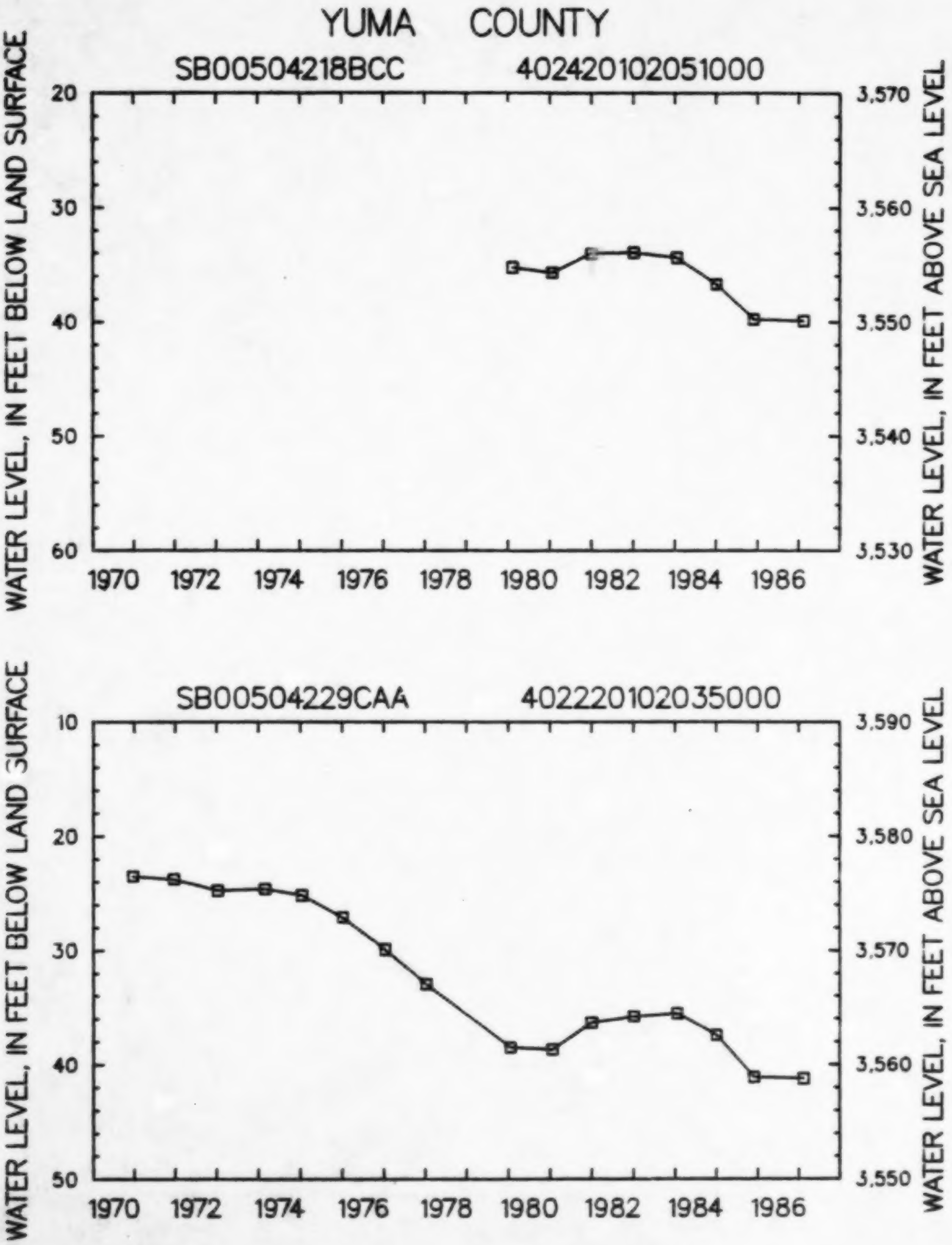

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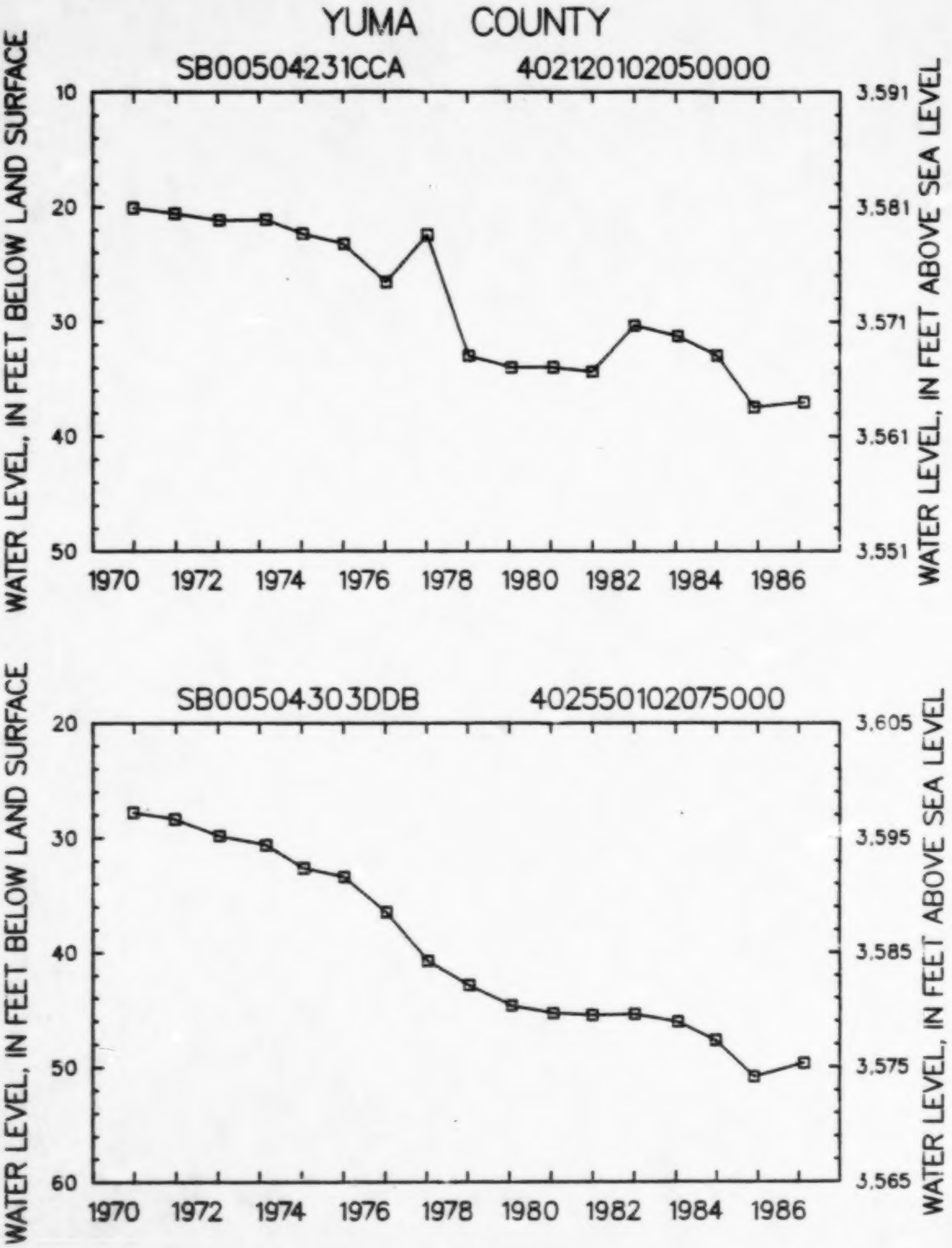

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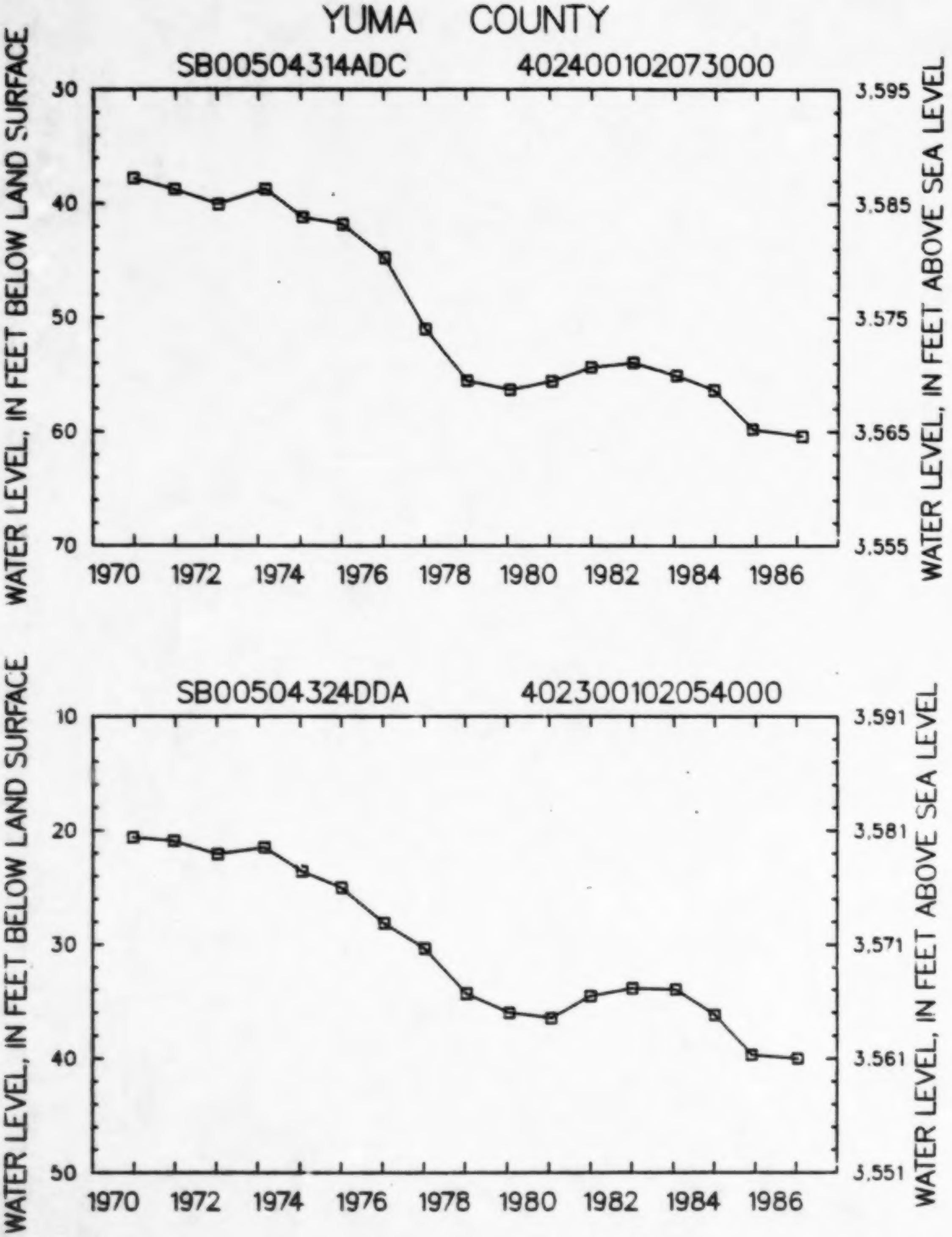

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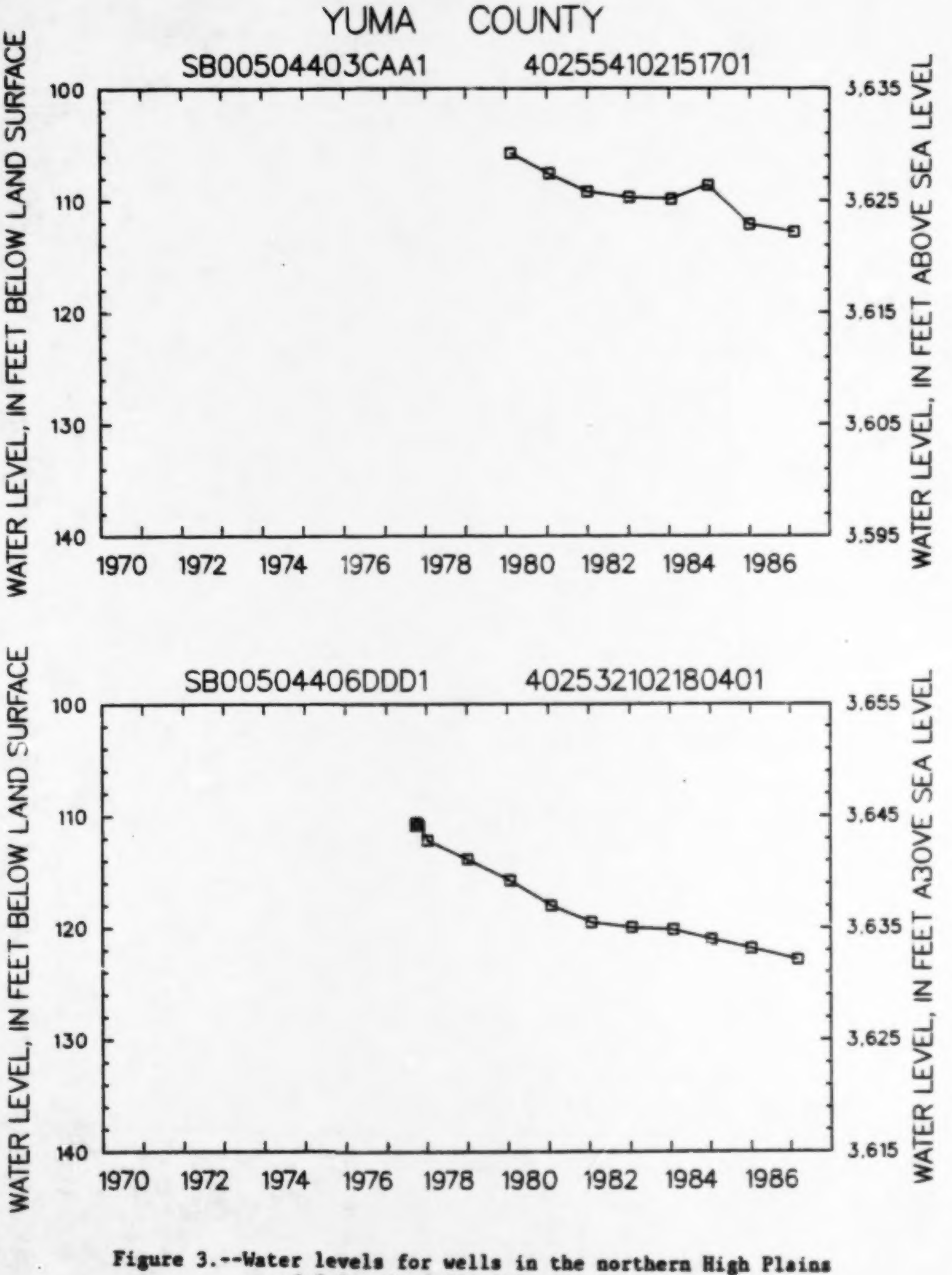
YUMA COUNTY

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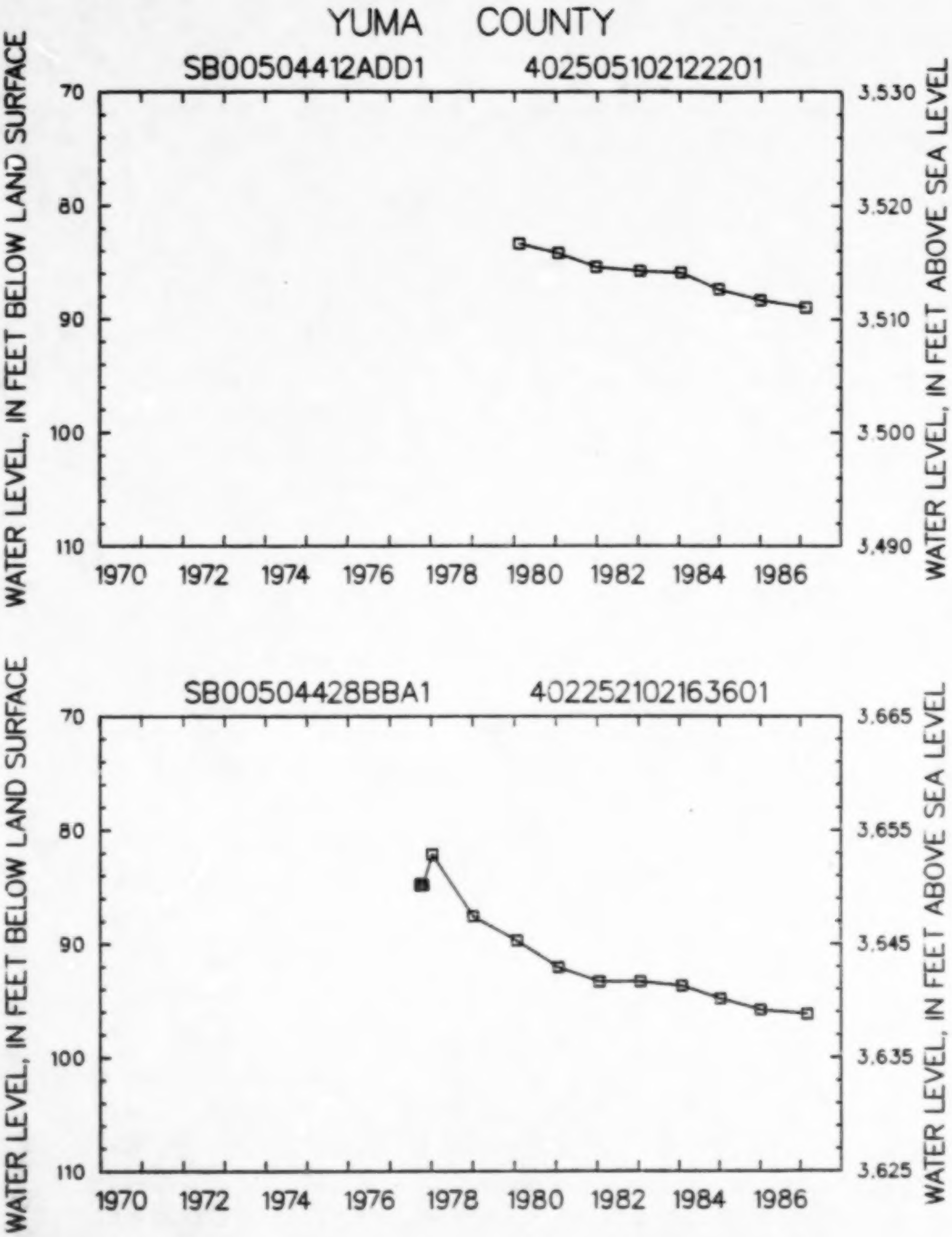

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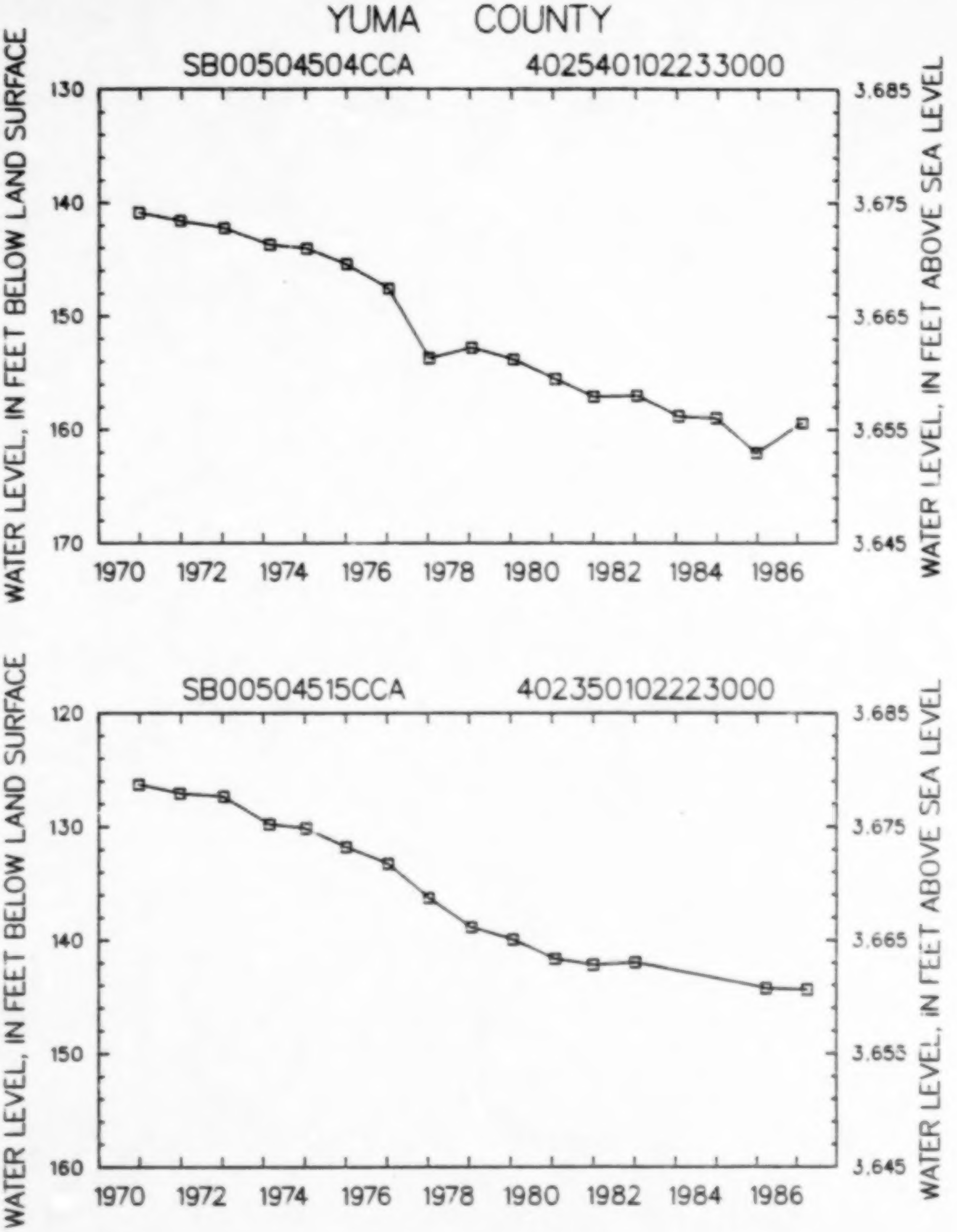

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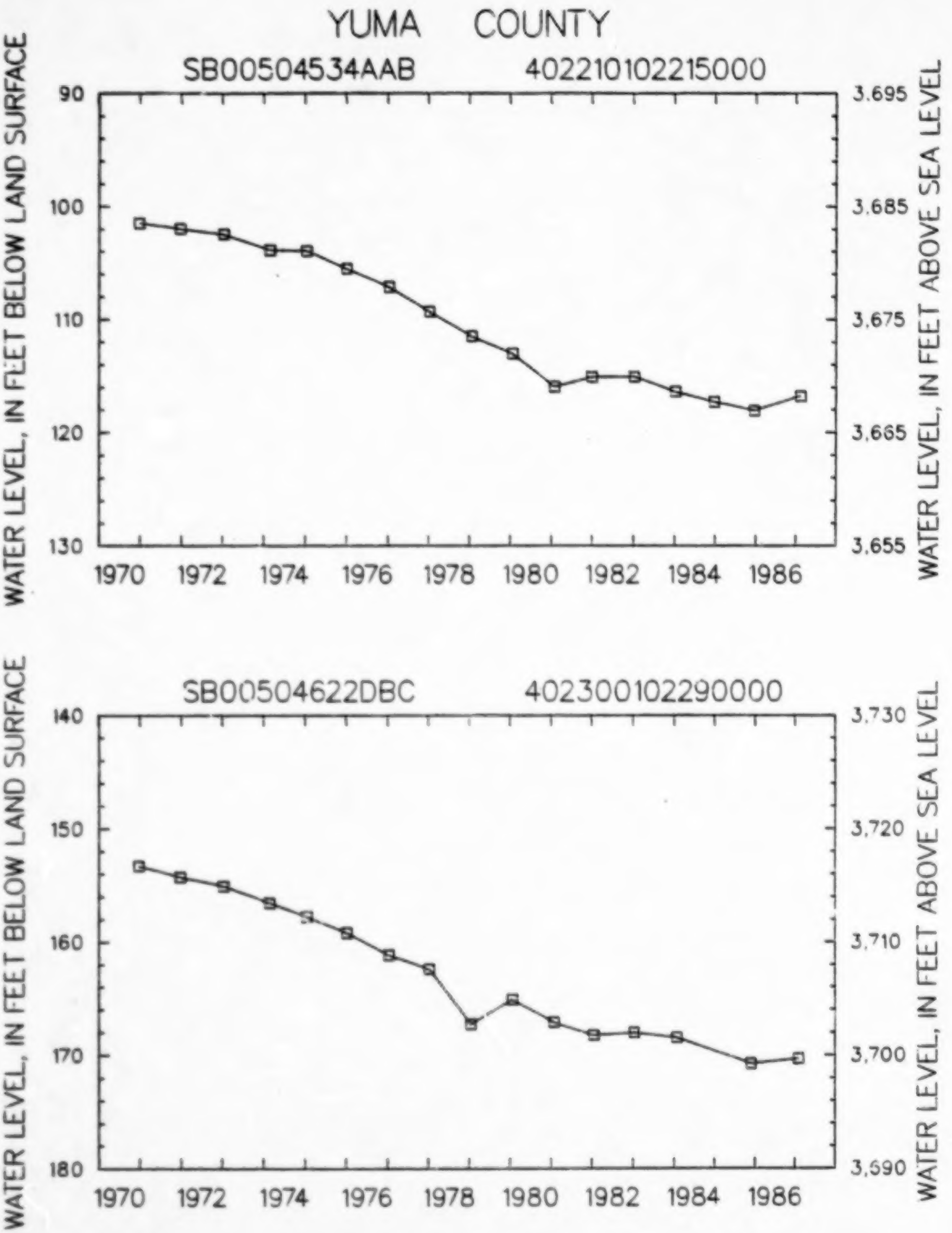

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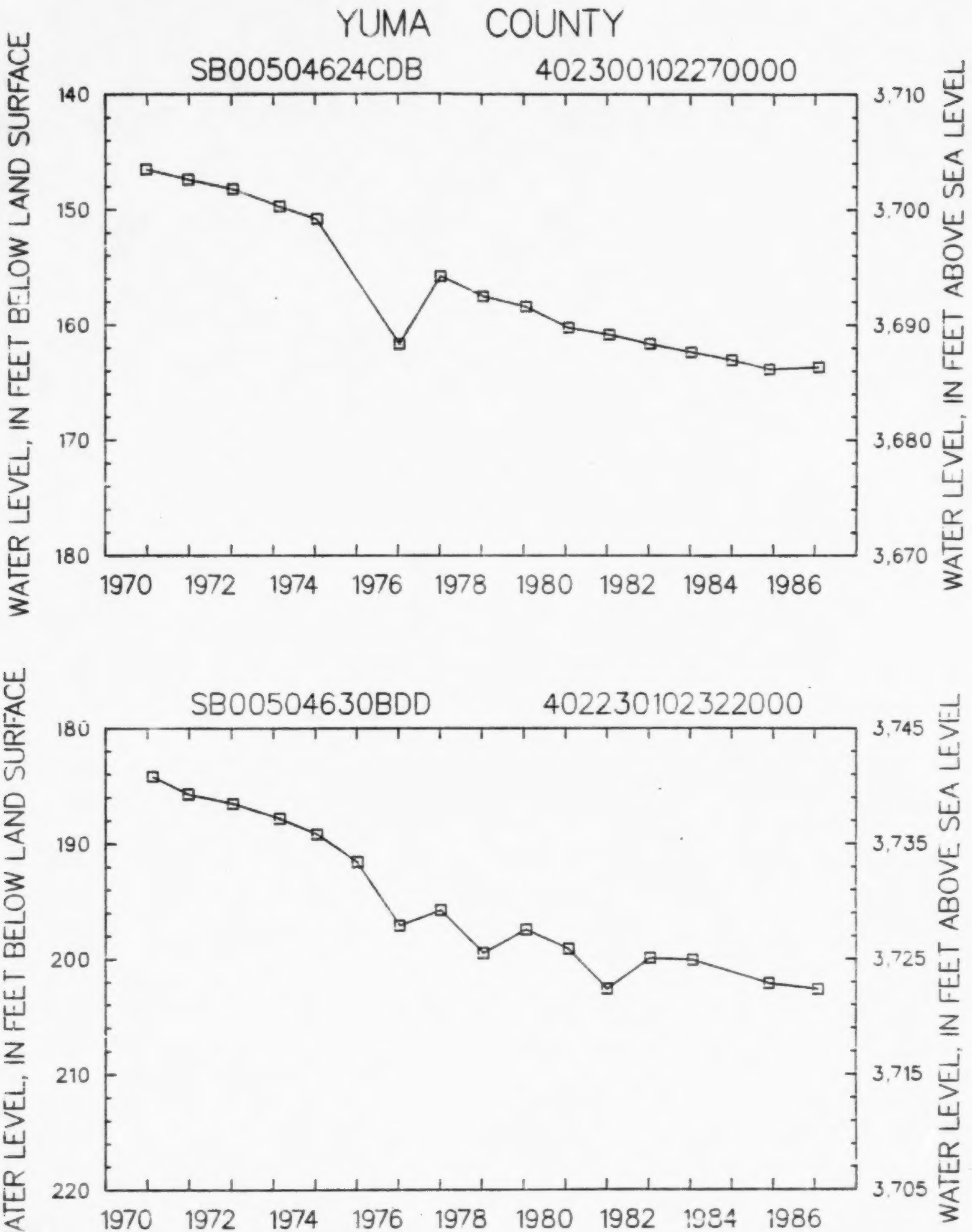

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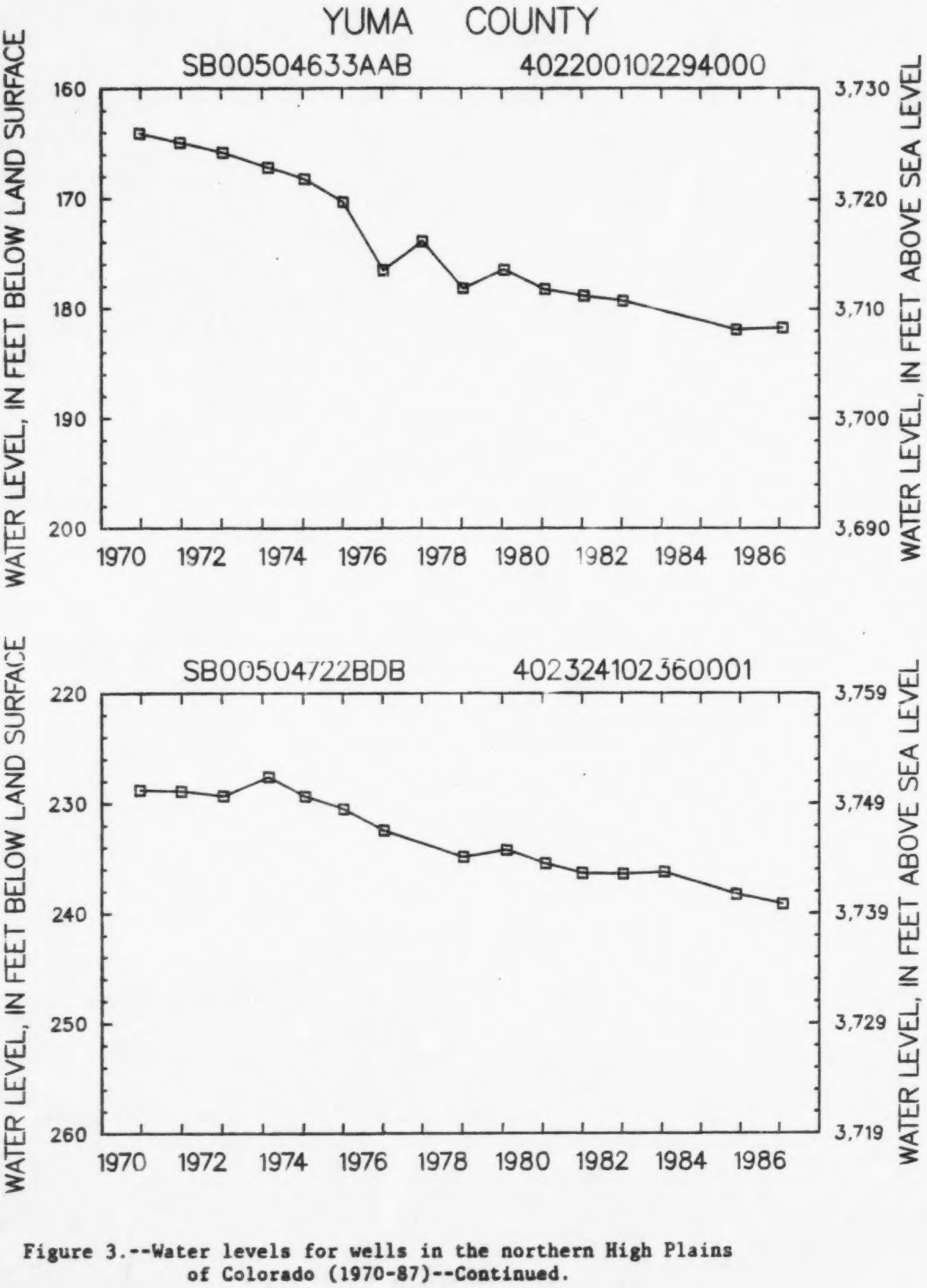

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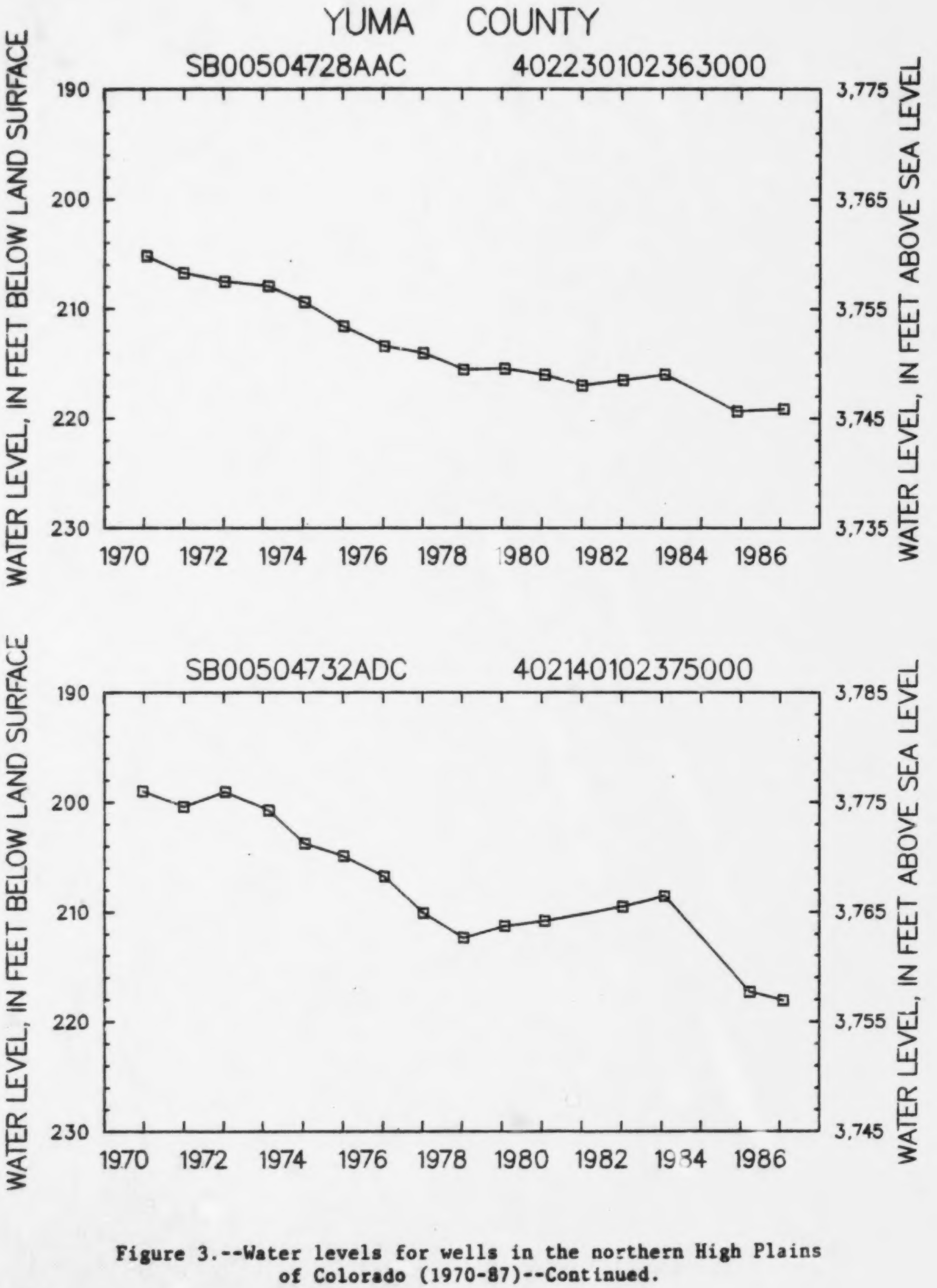

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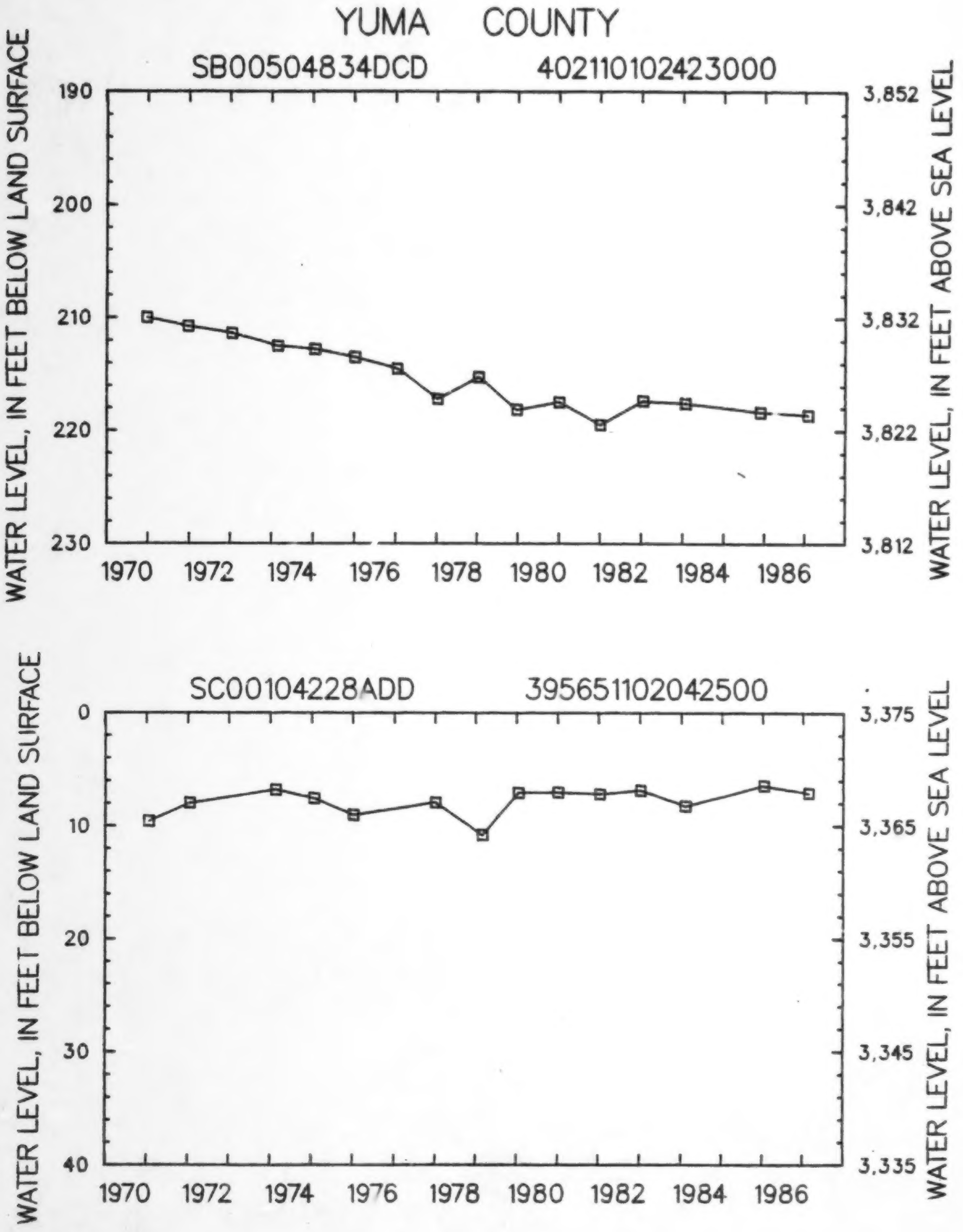

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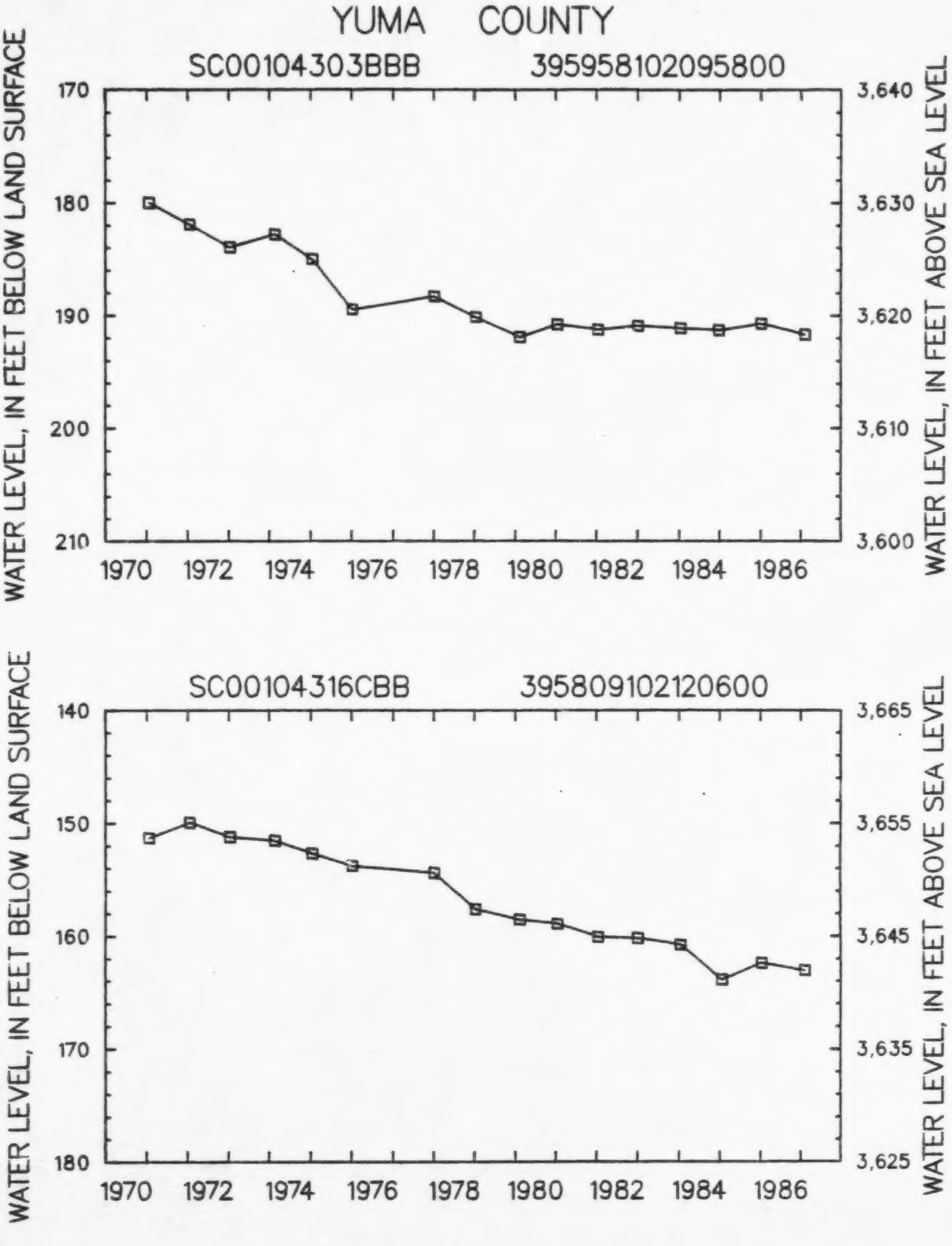

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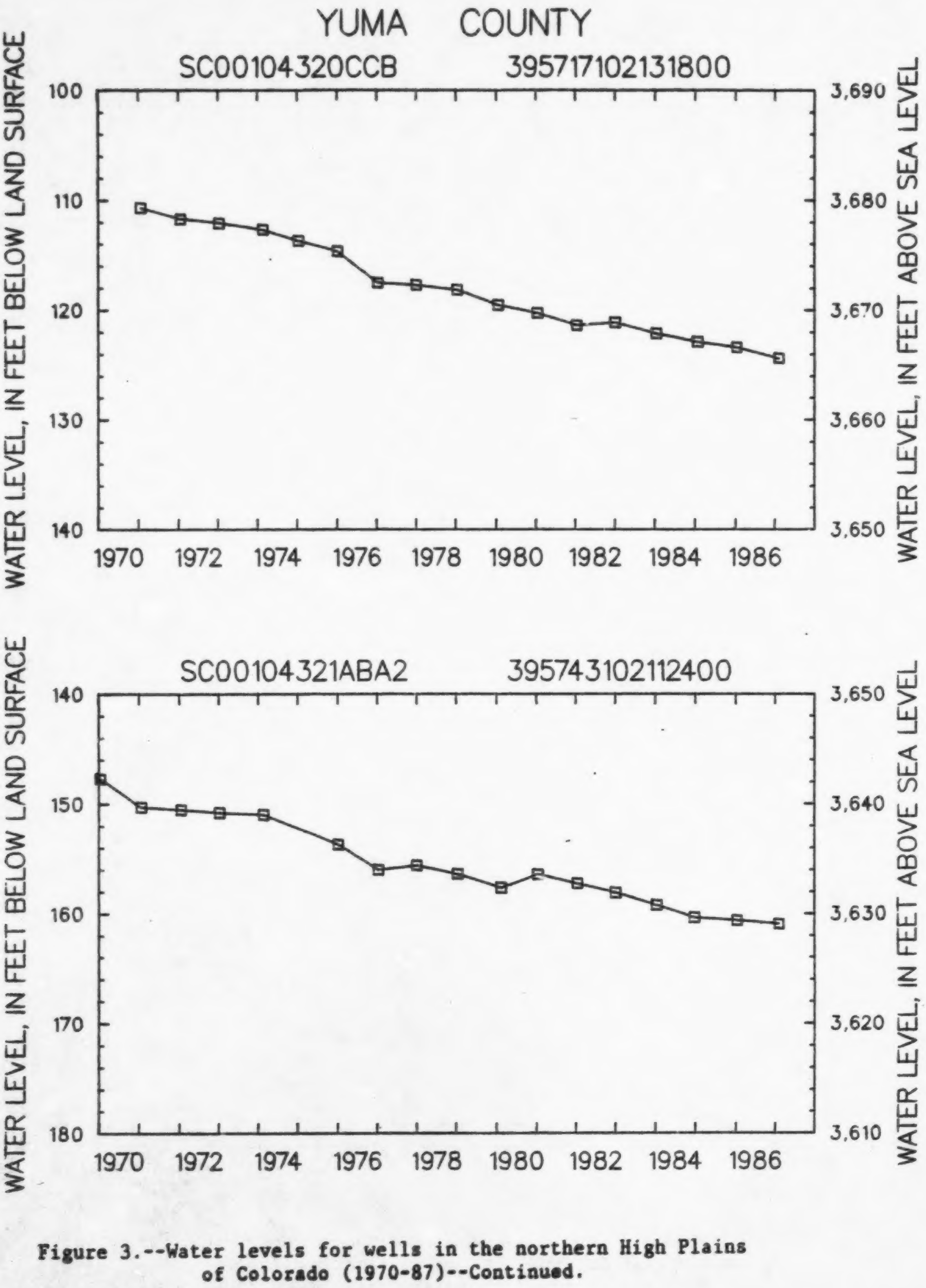

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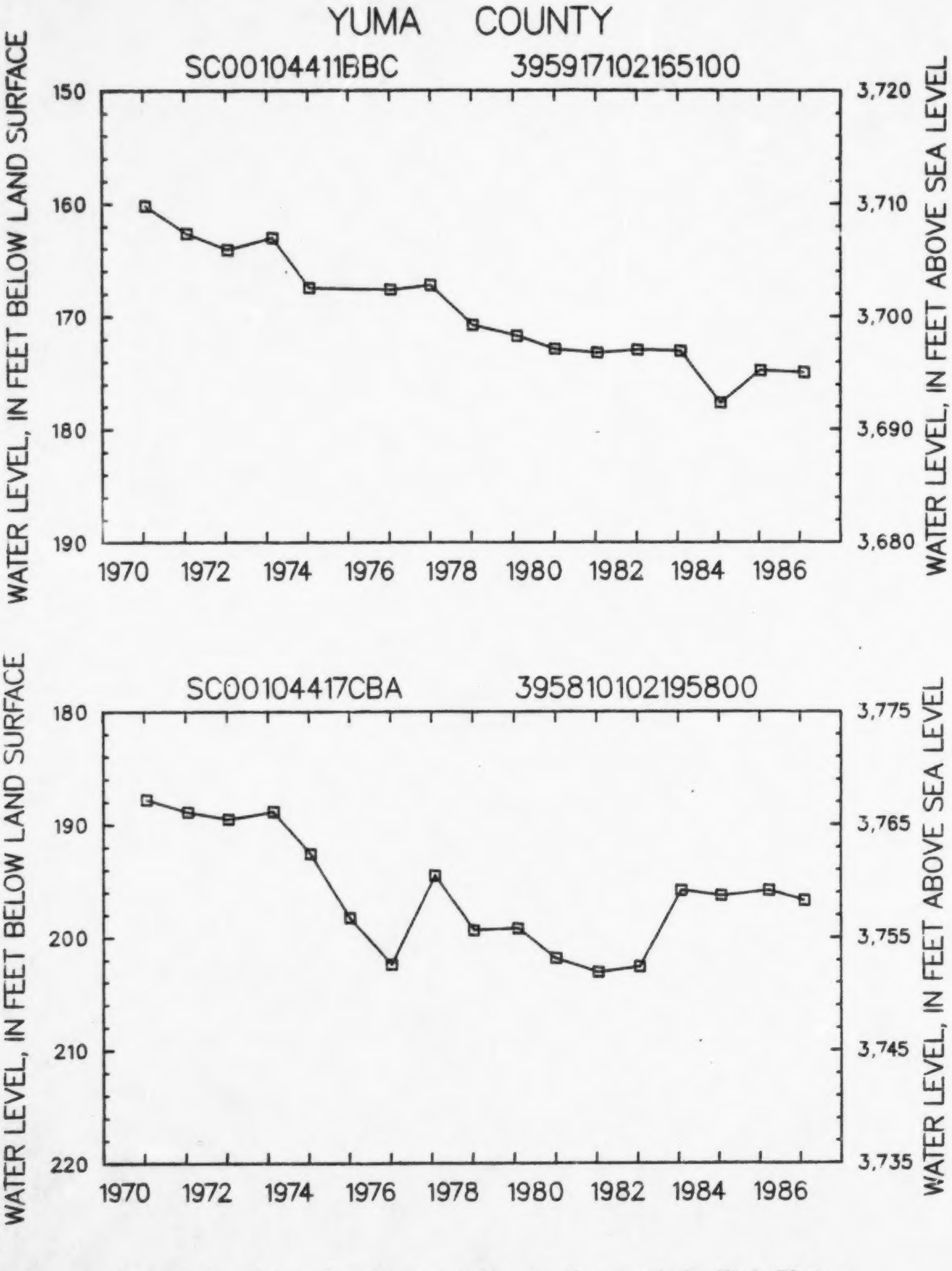

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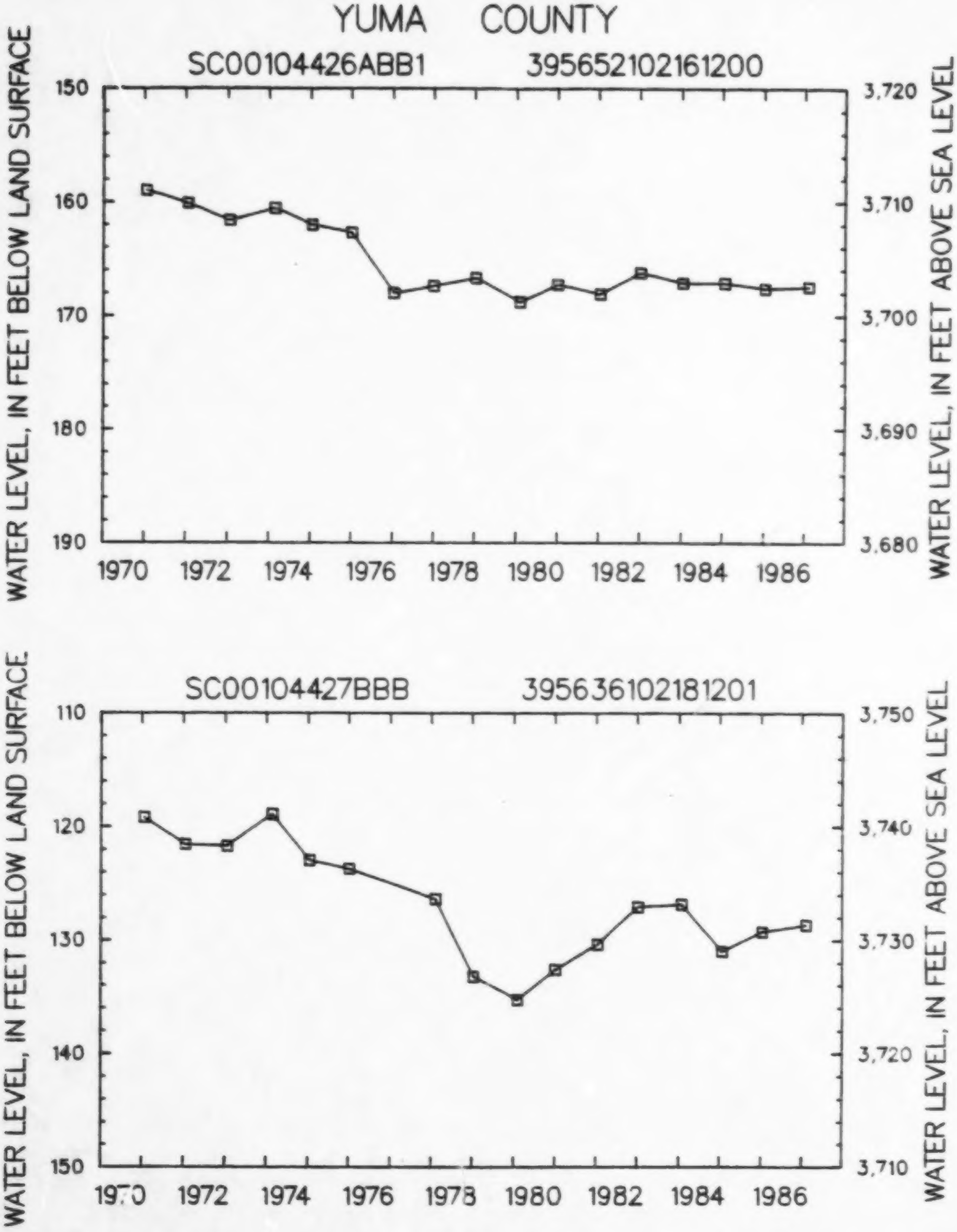

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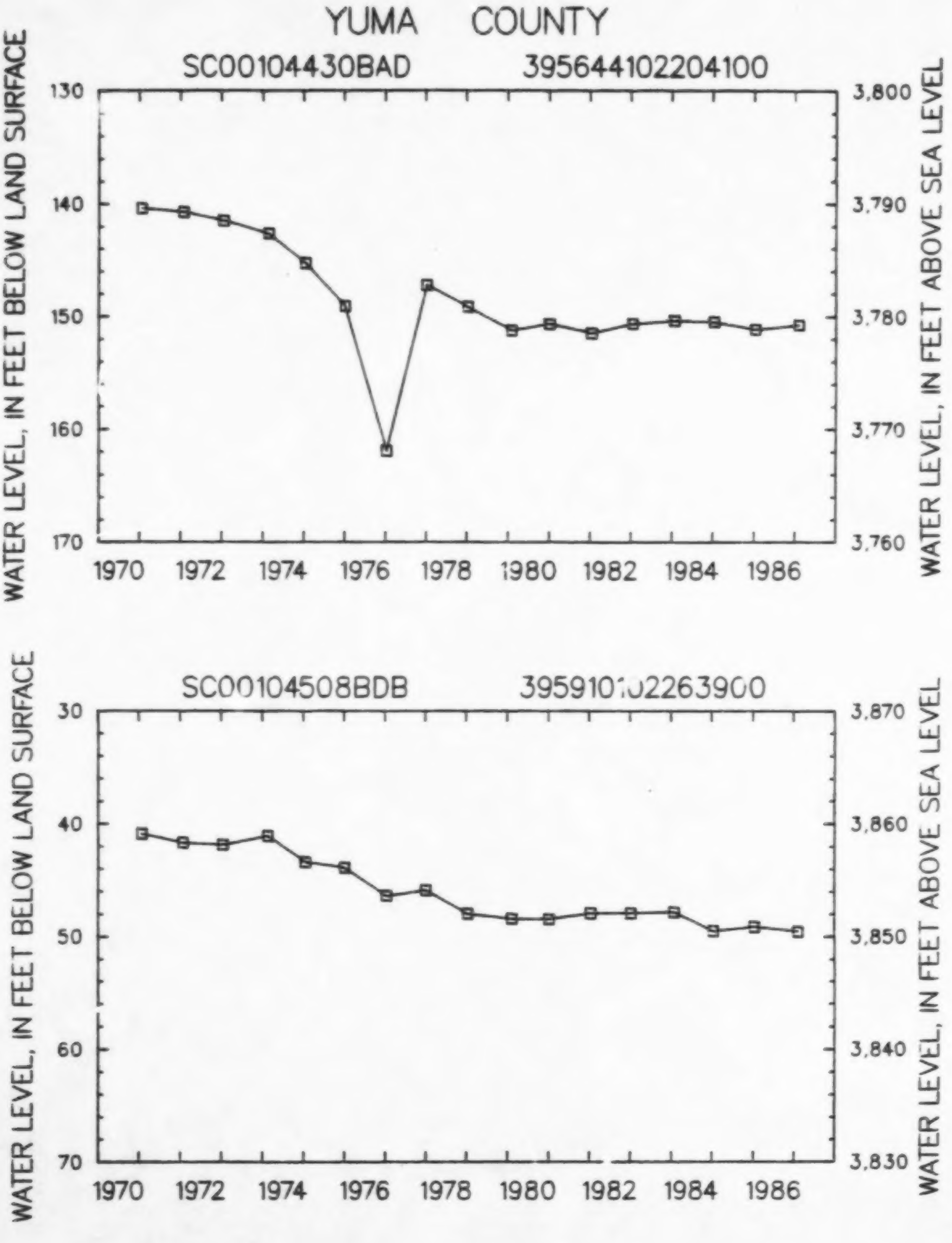

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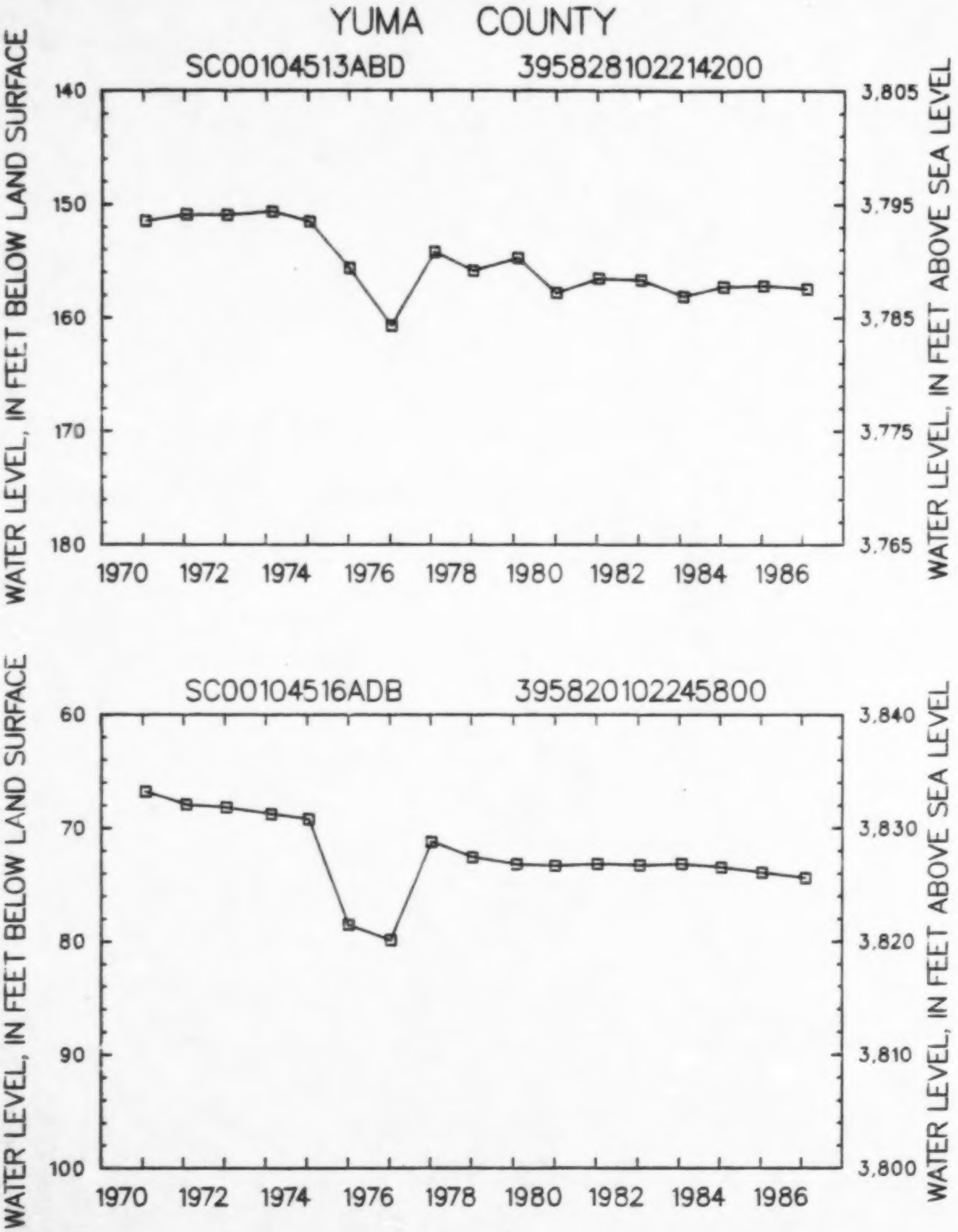

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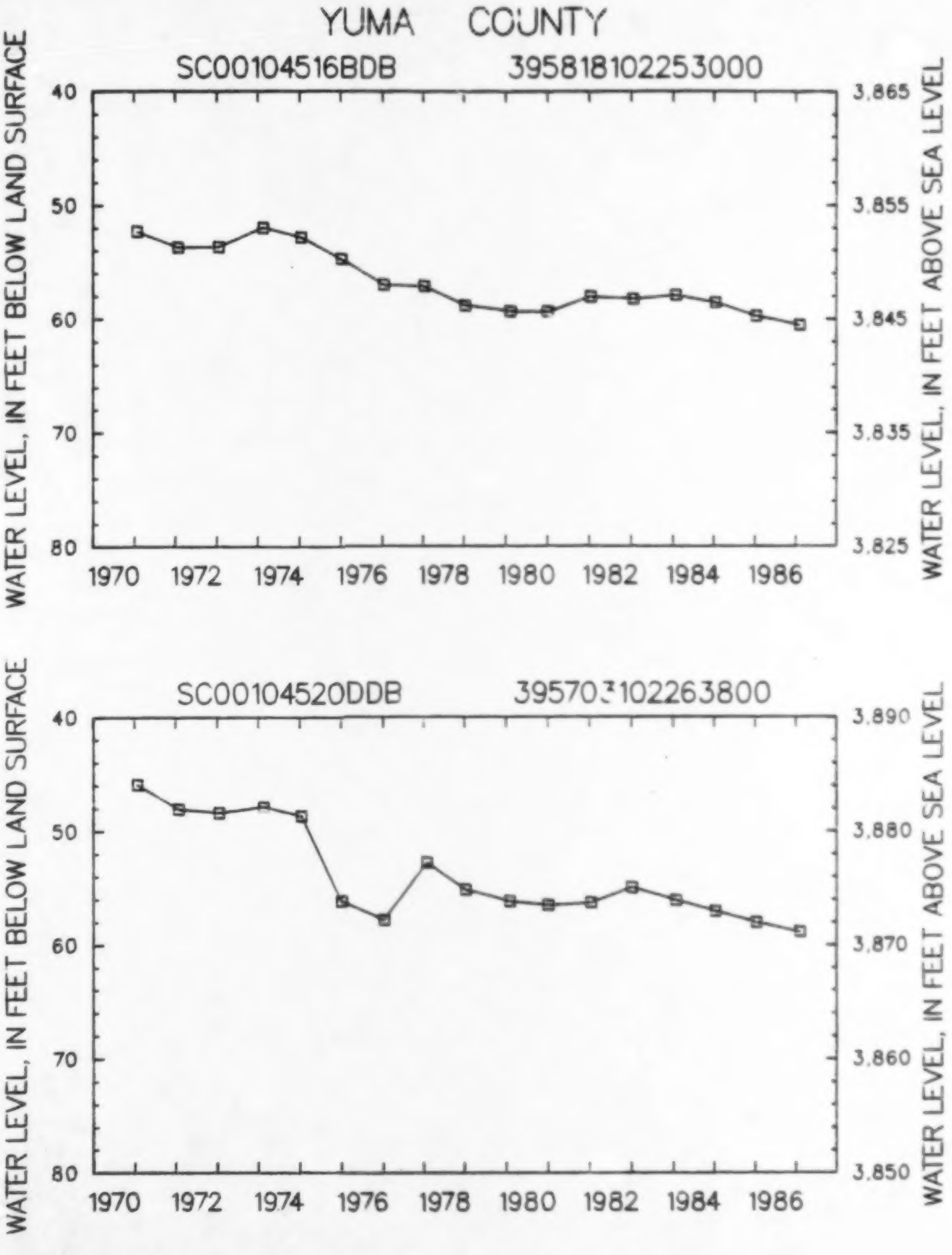

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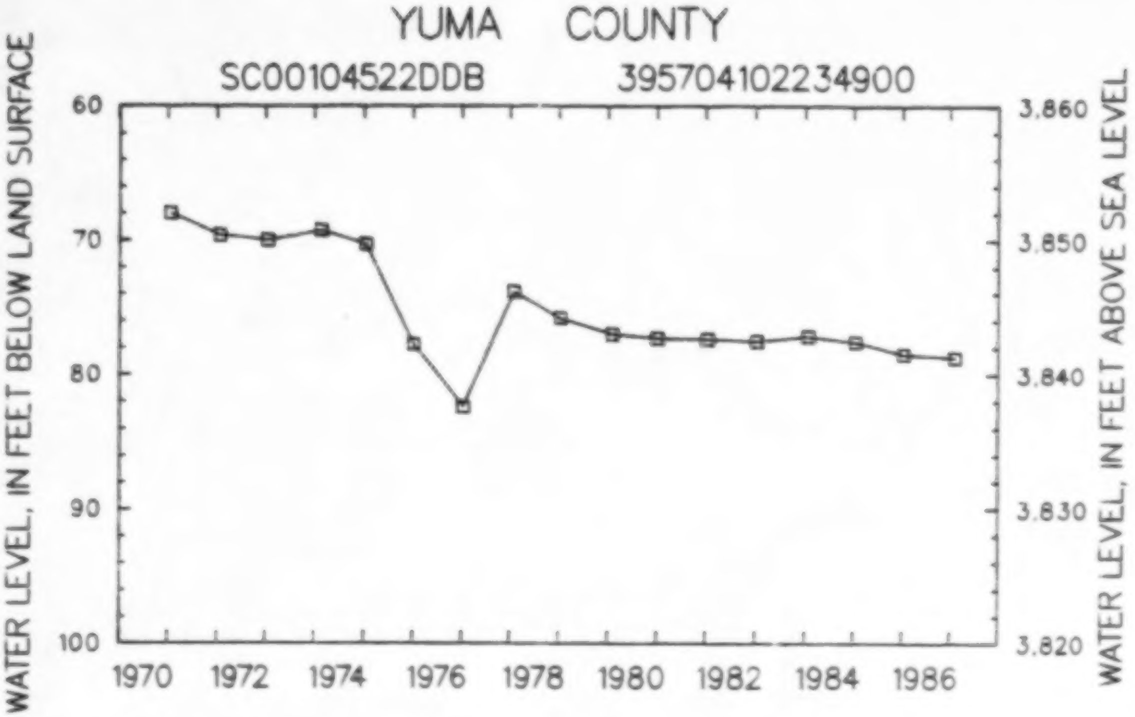

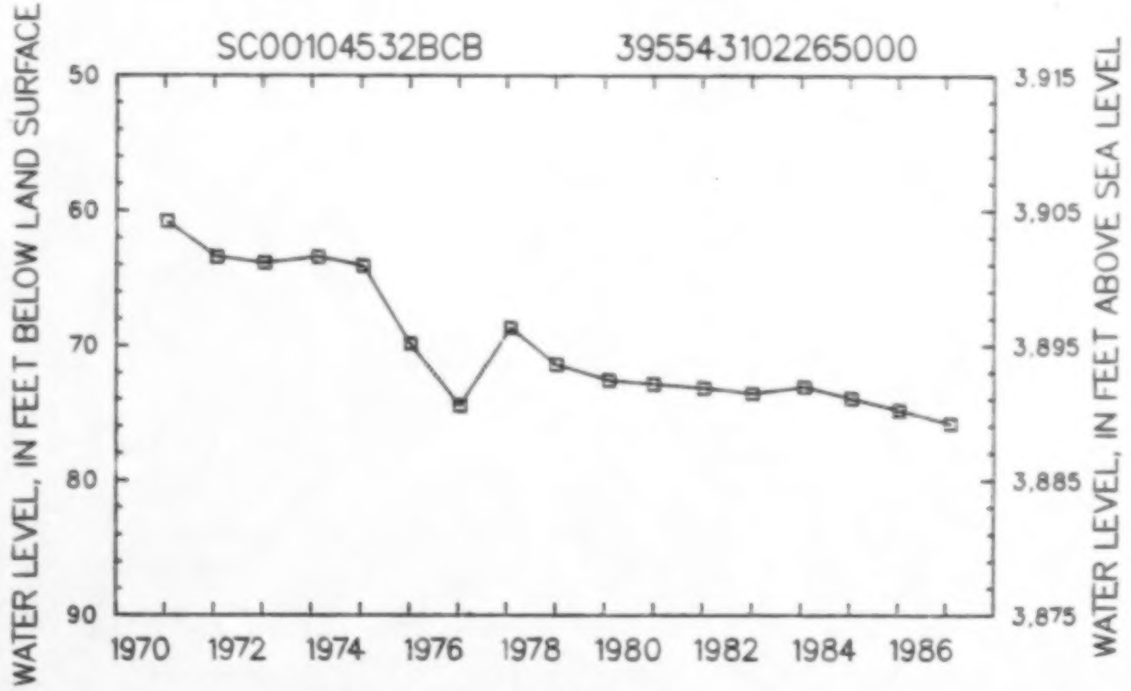

Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

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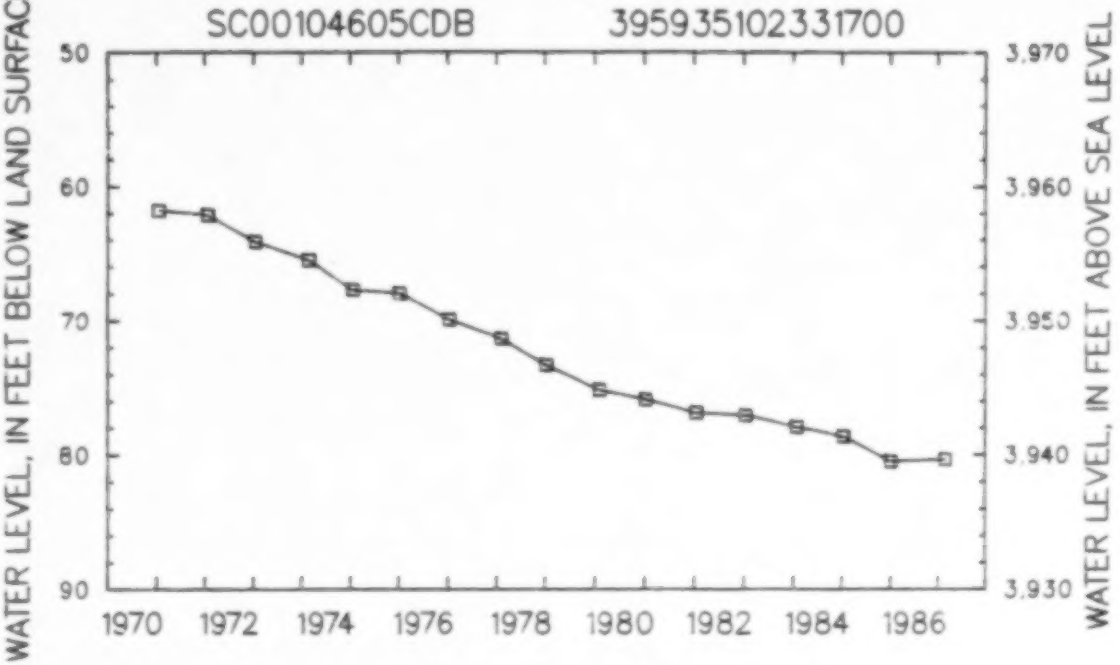

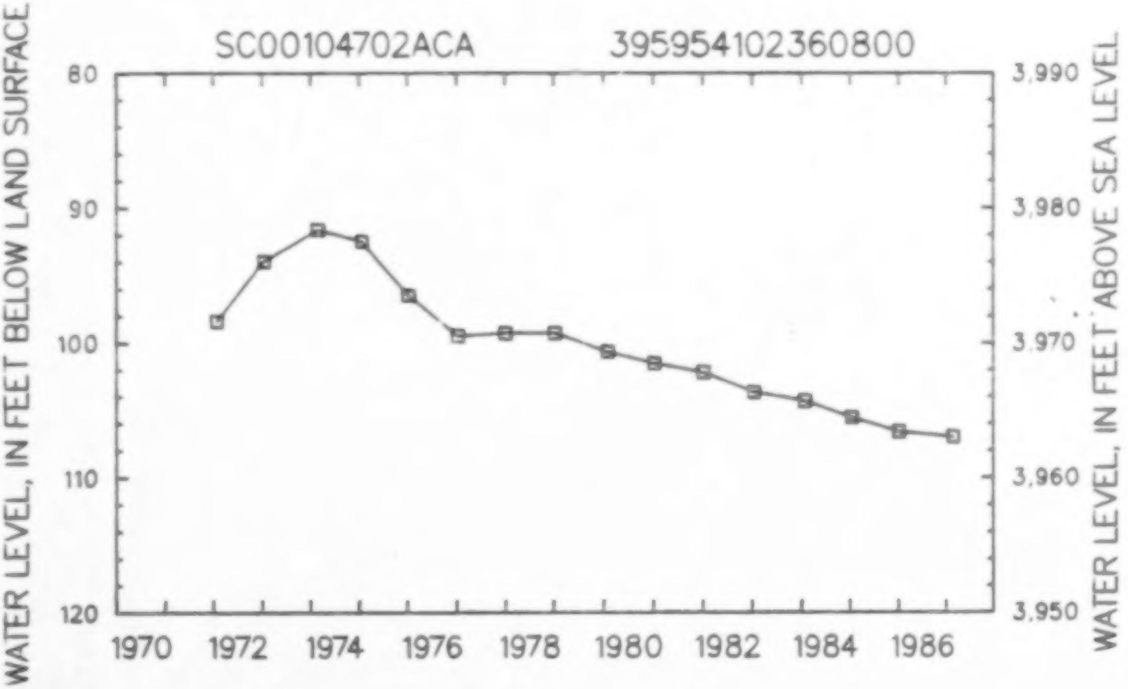

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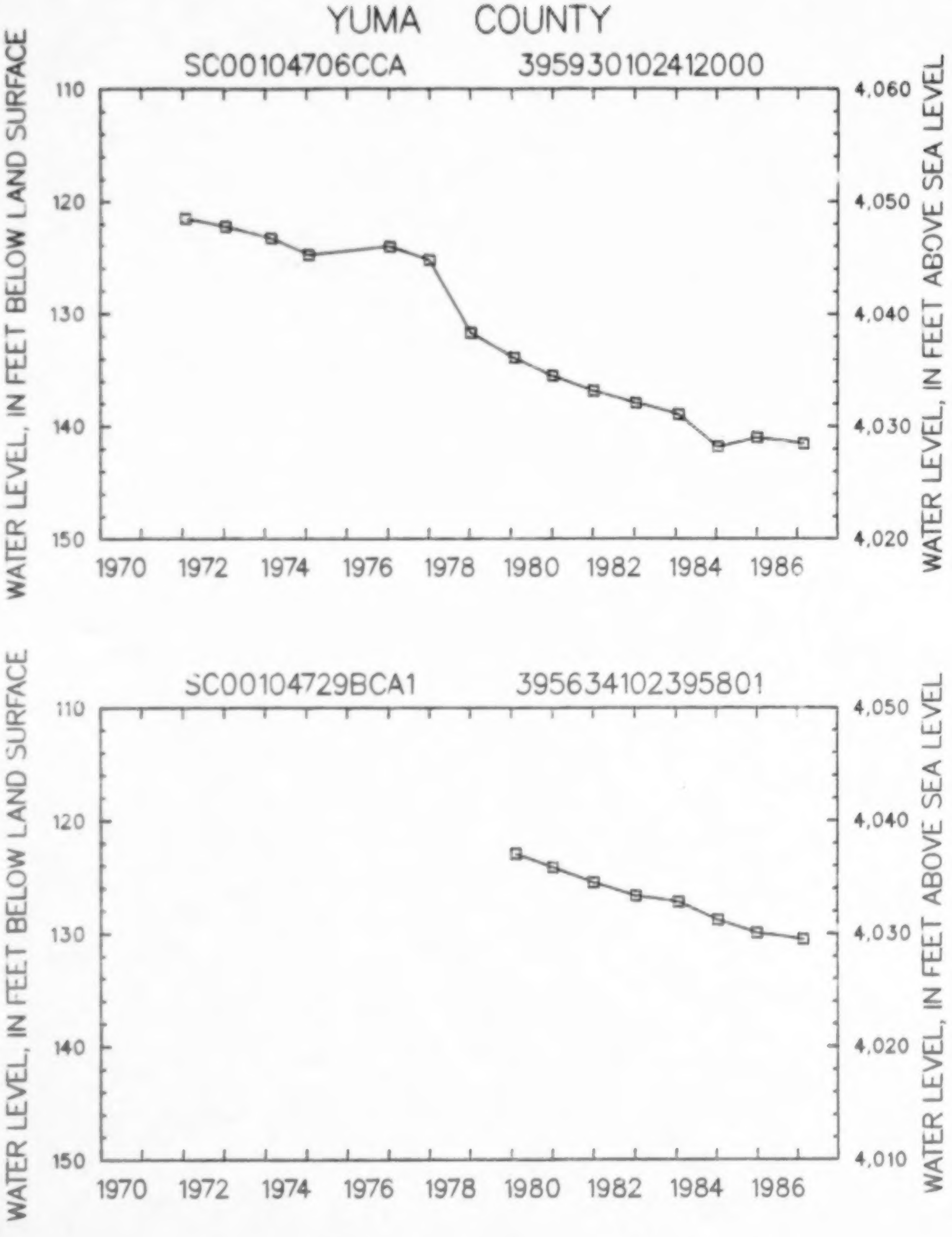
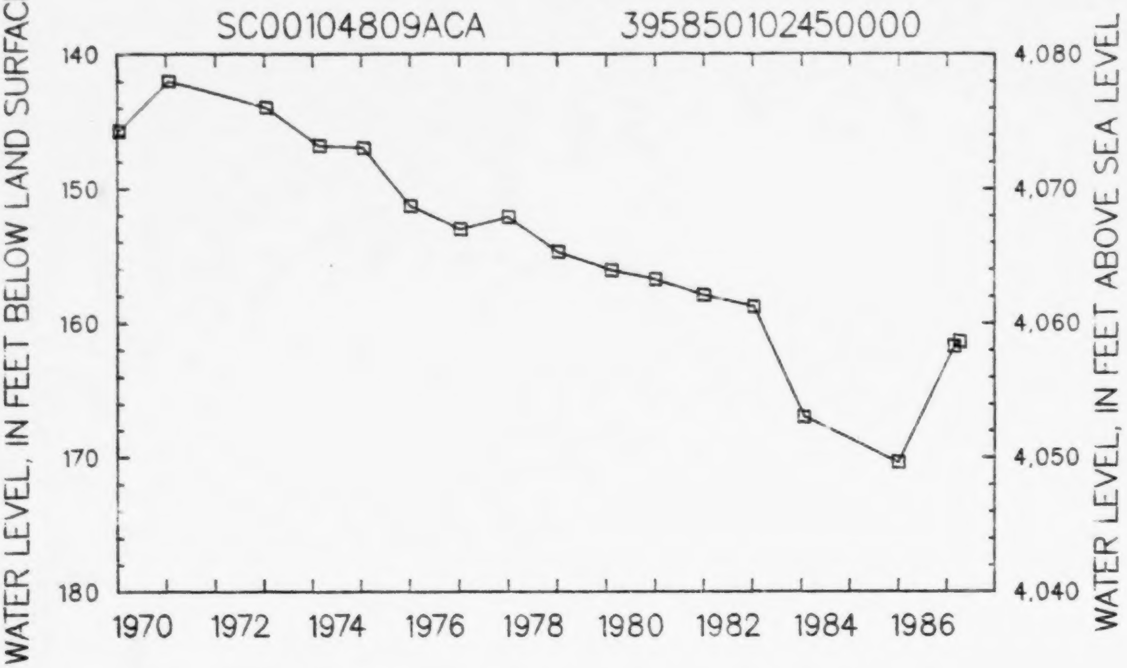


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY



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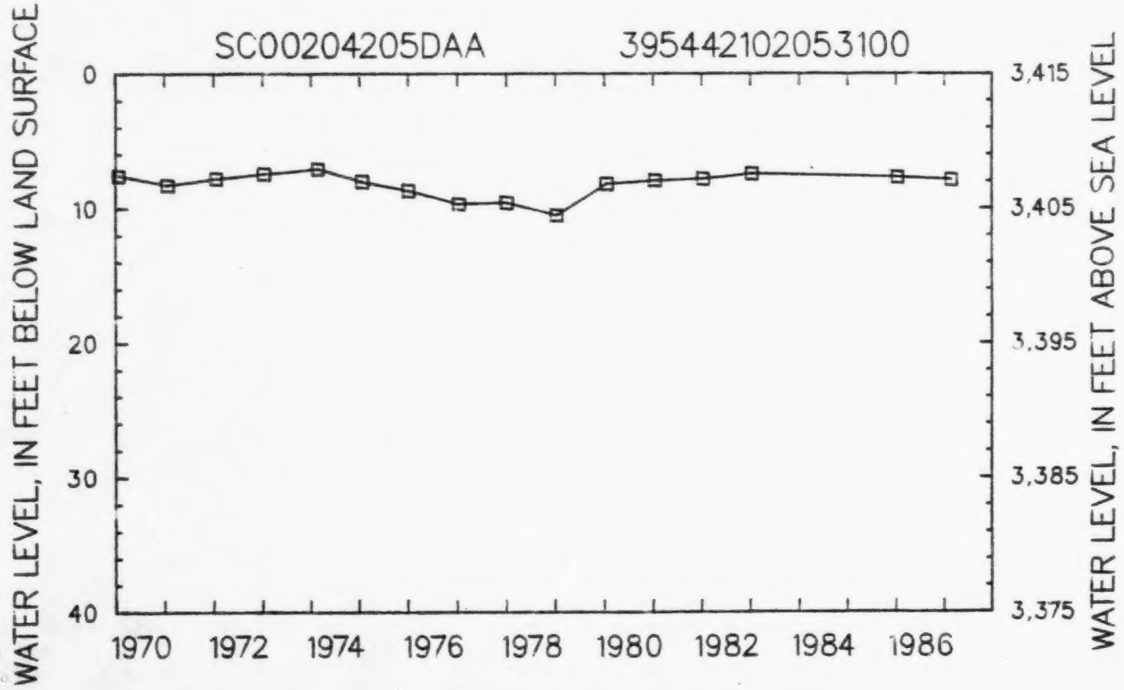

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Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

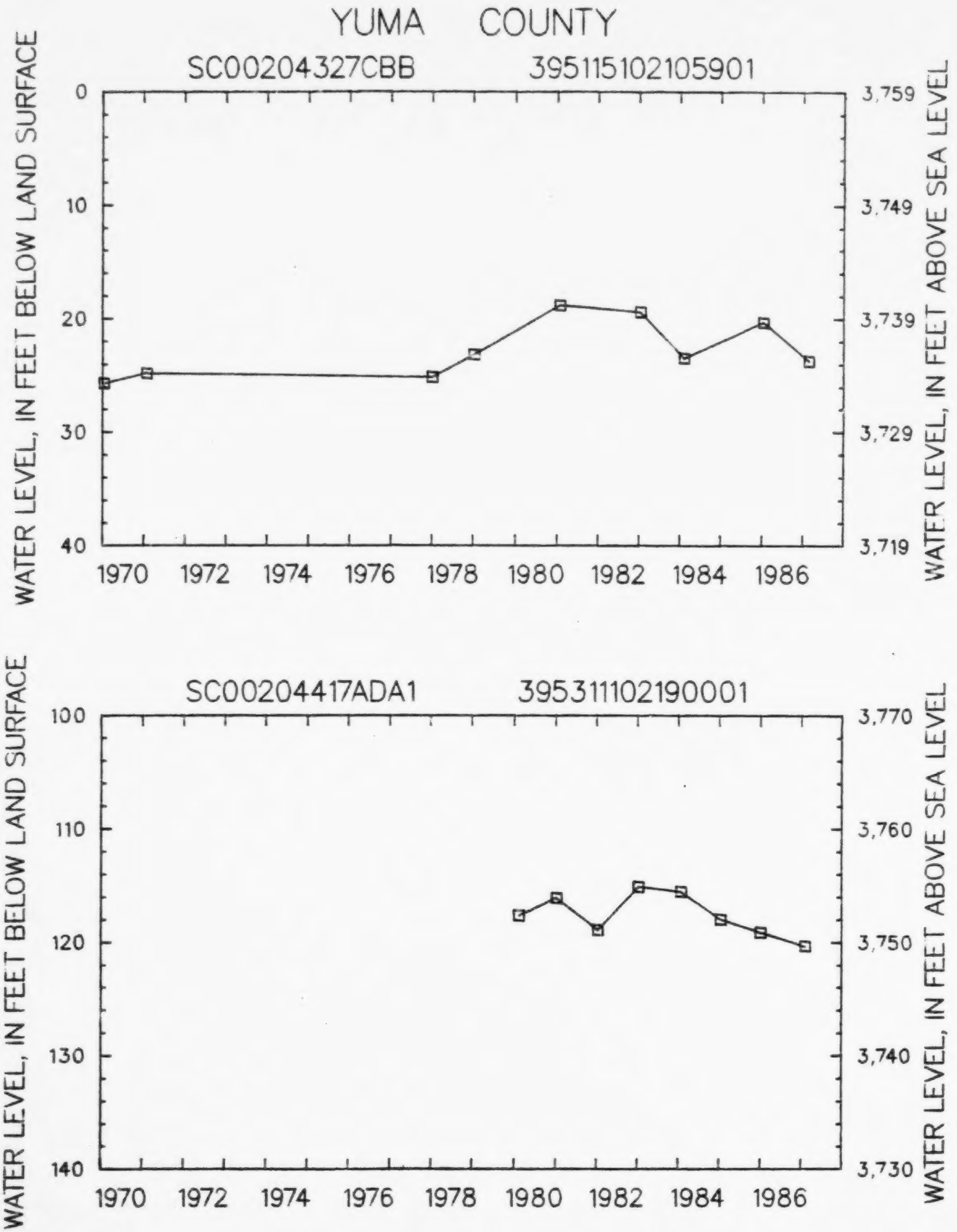


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

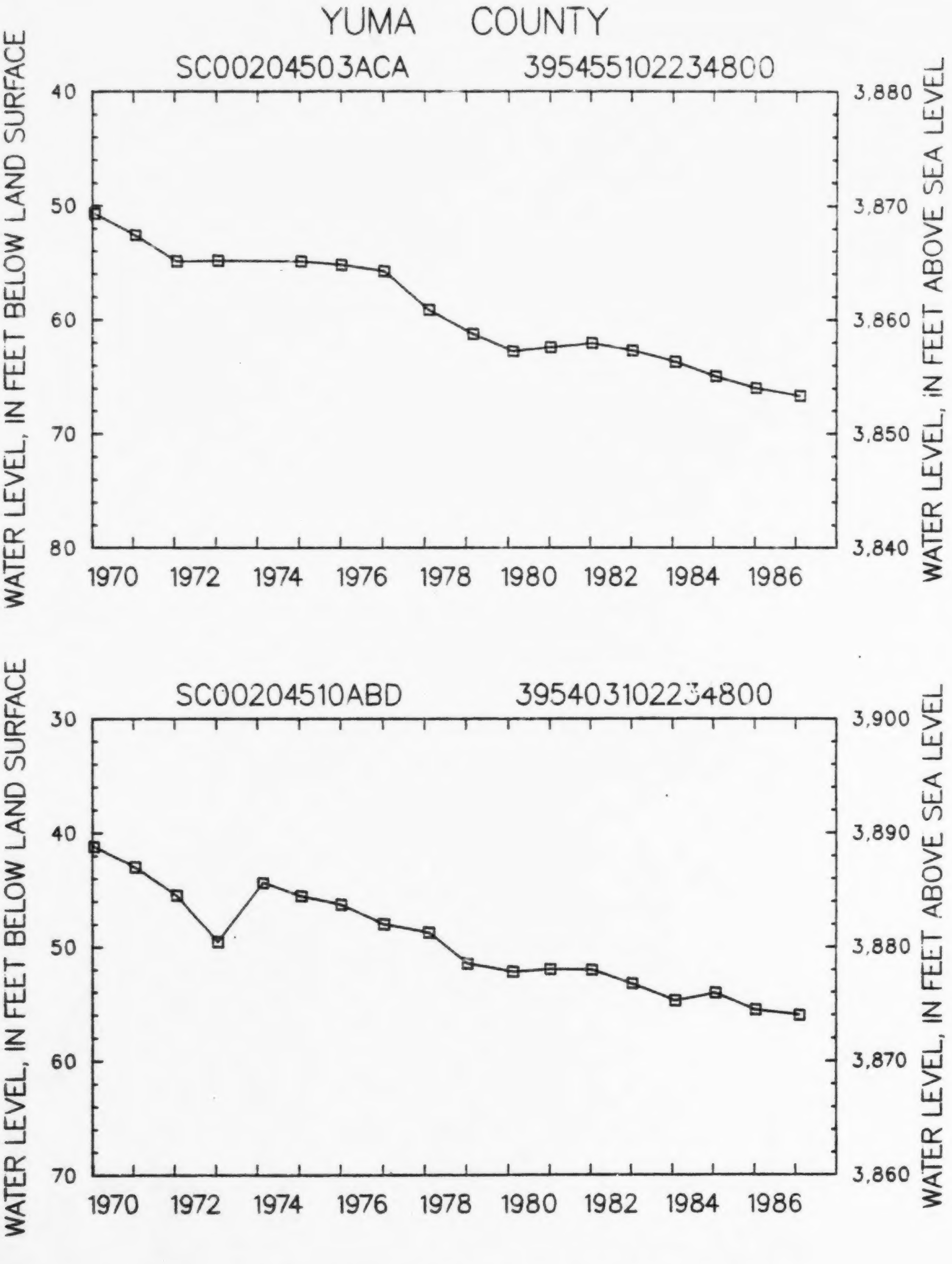


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY

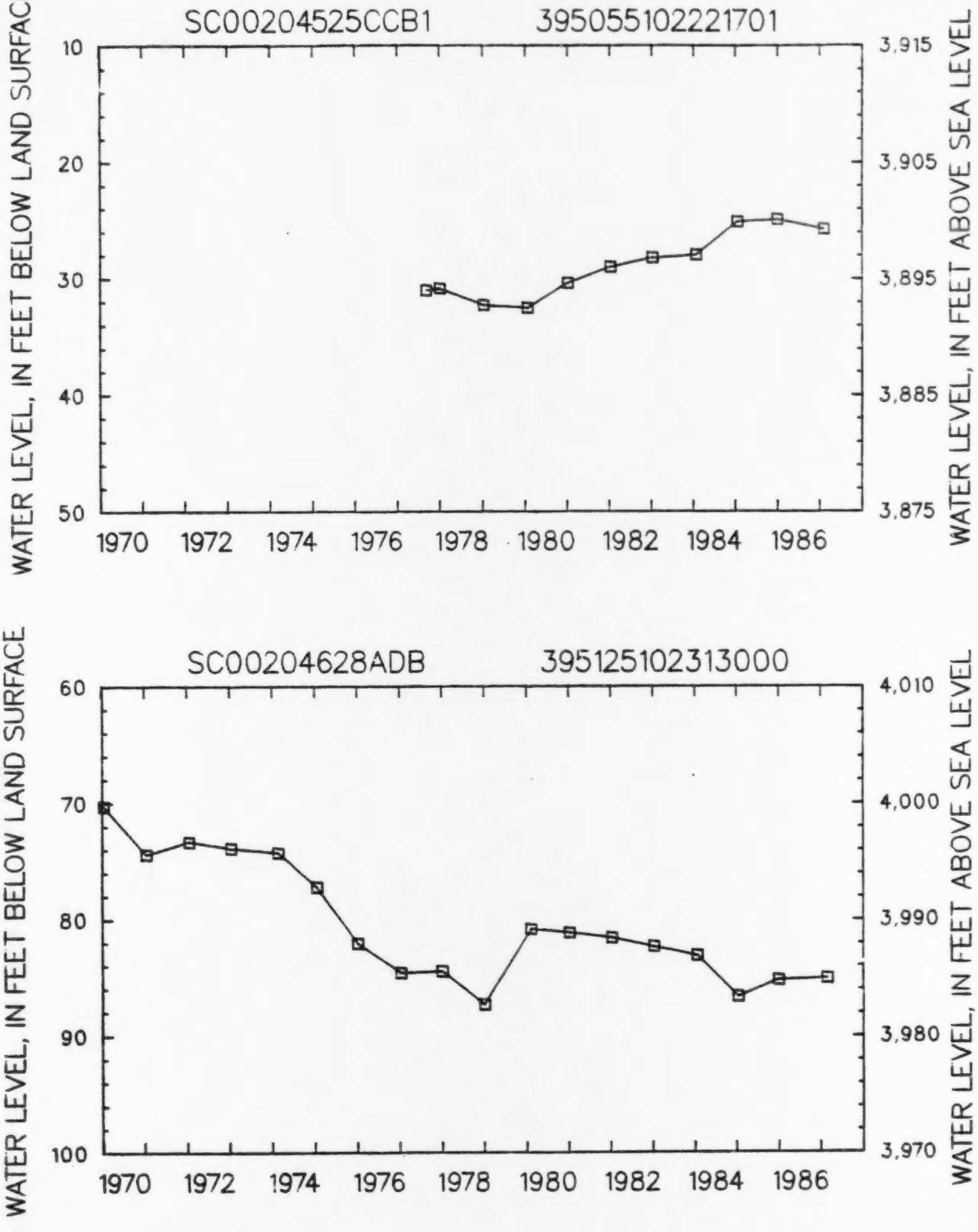


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

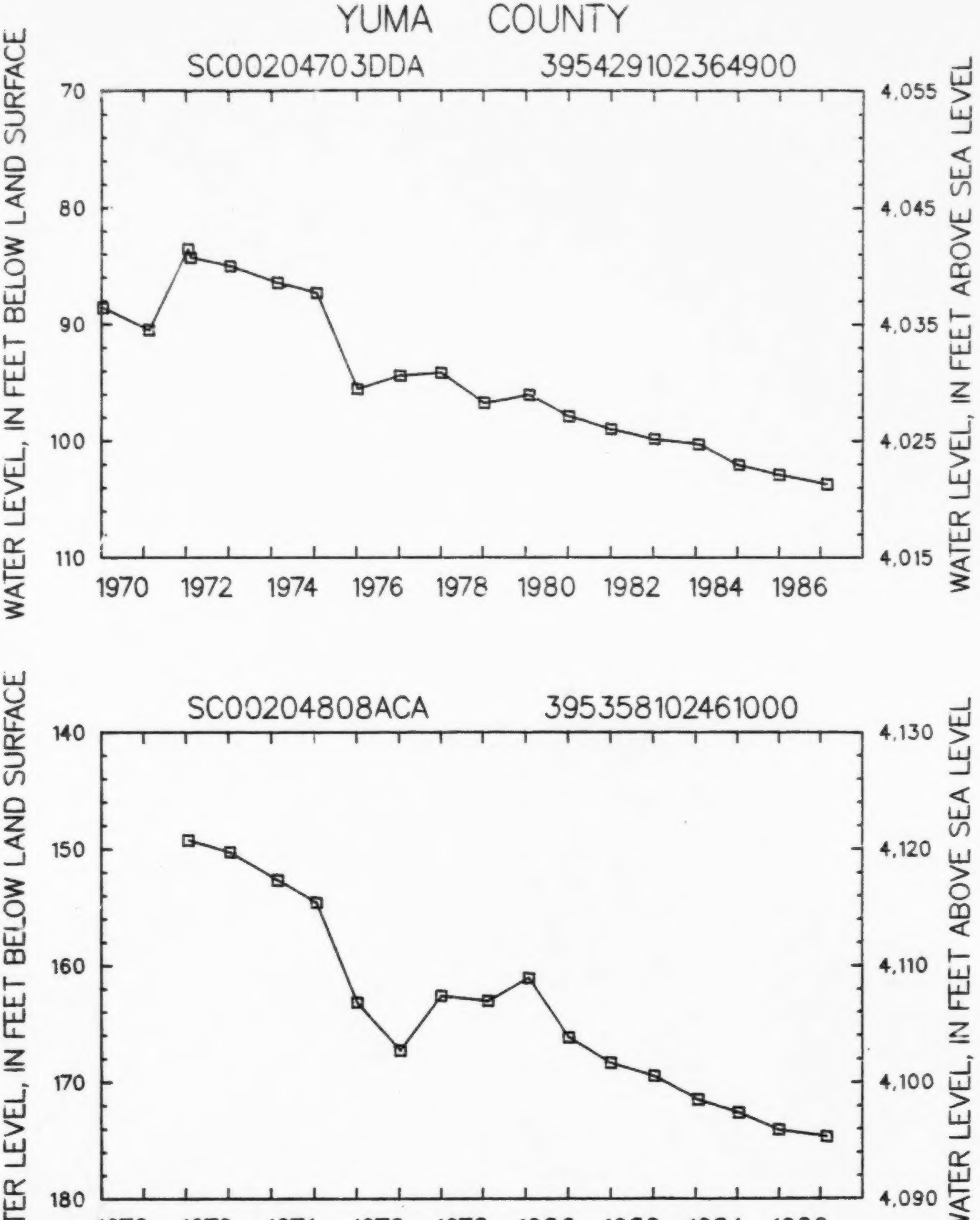


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

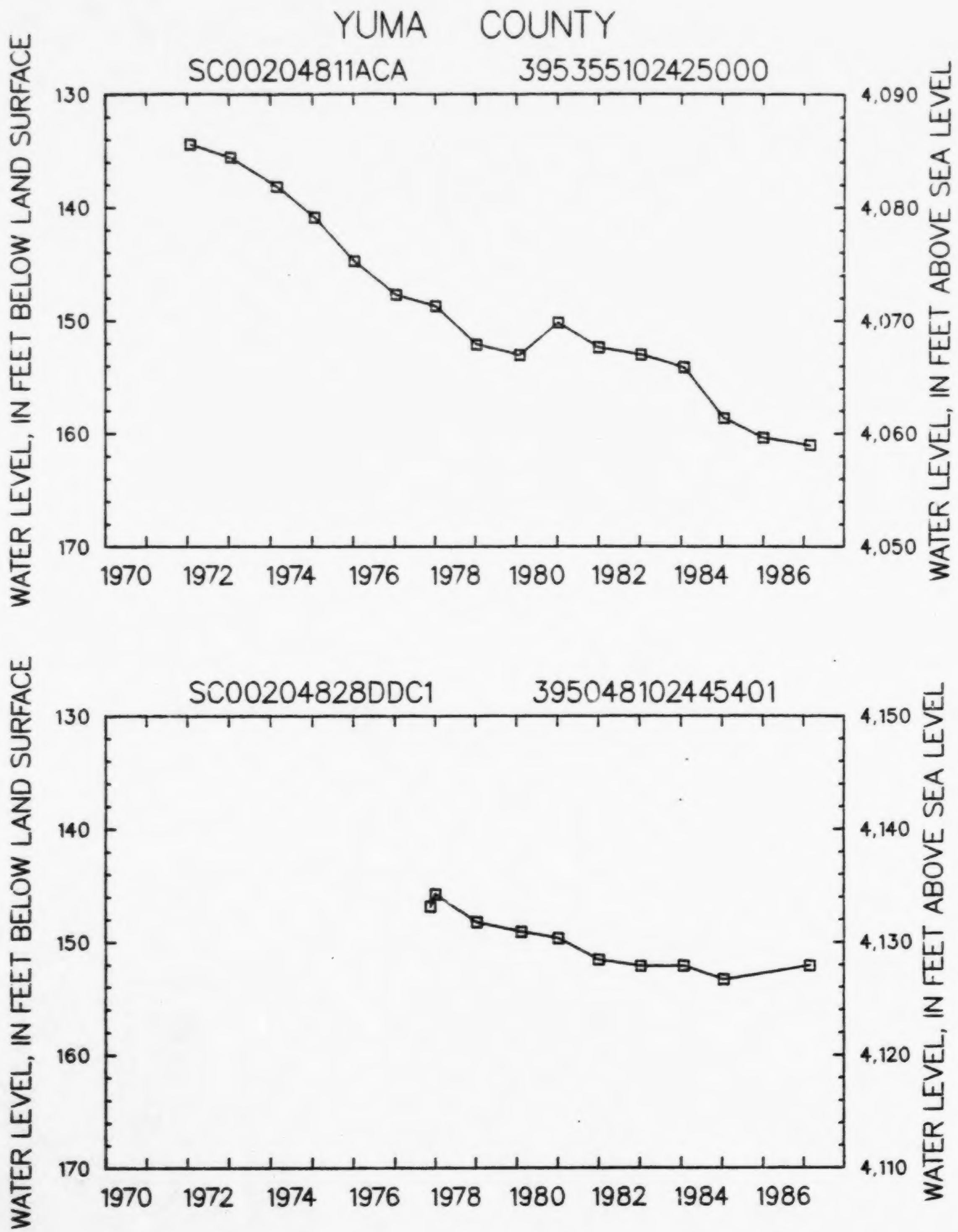


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY

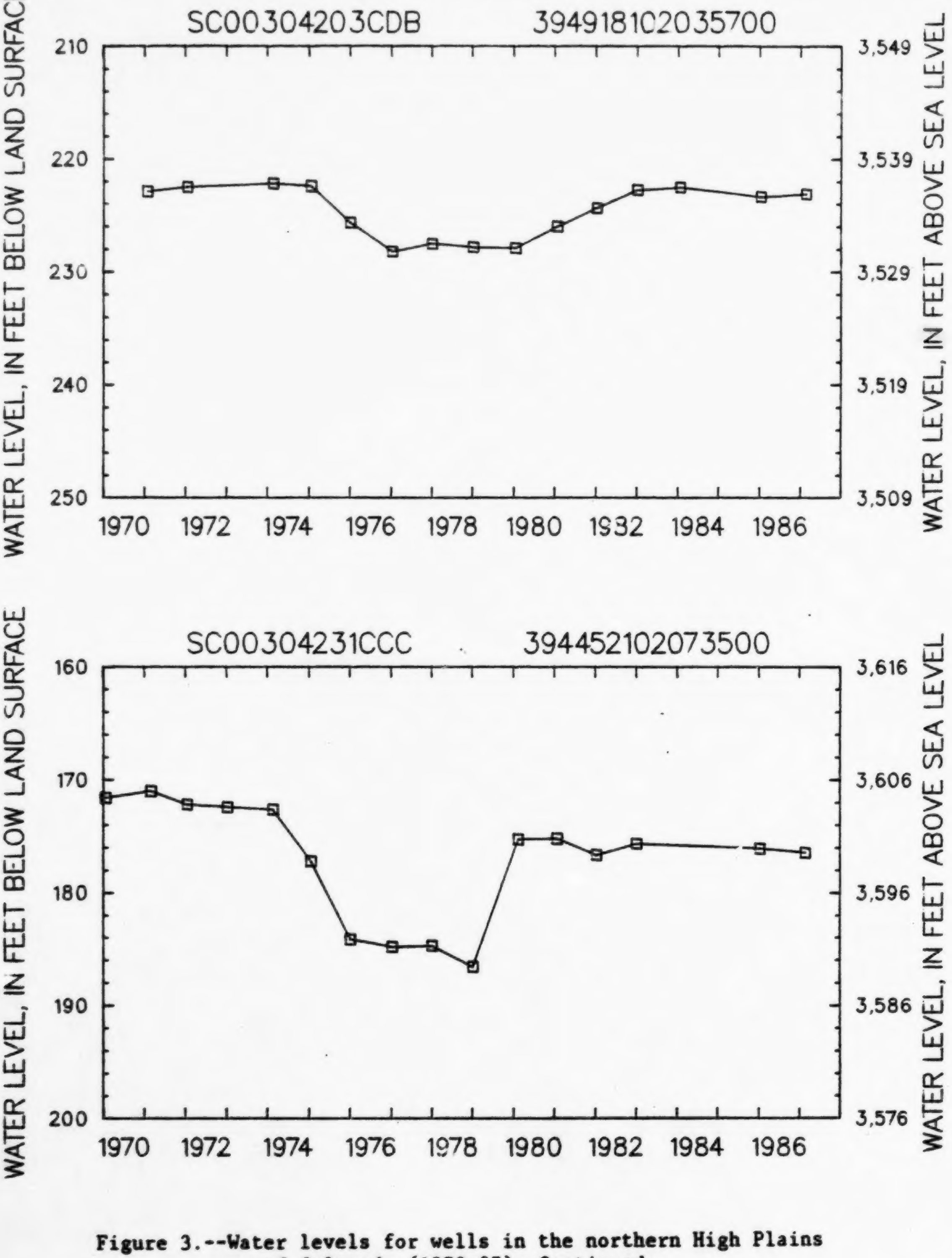
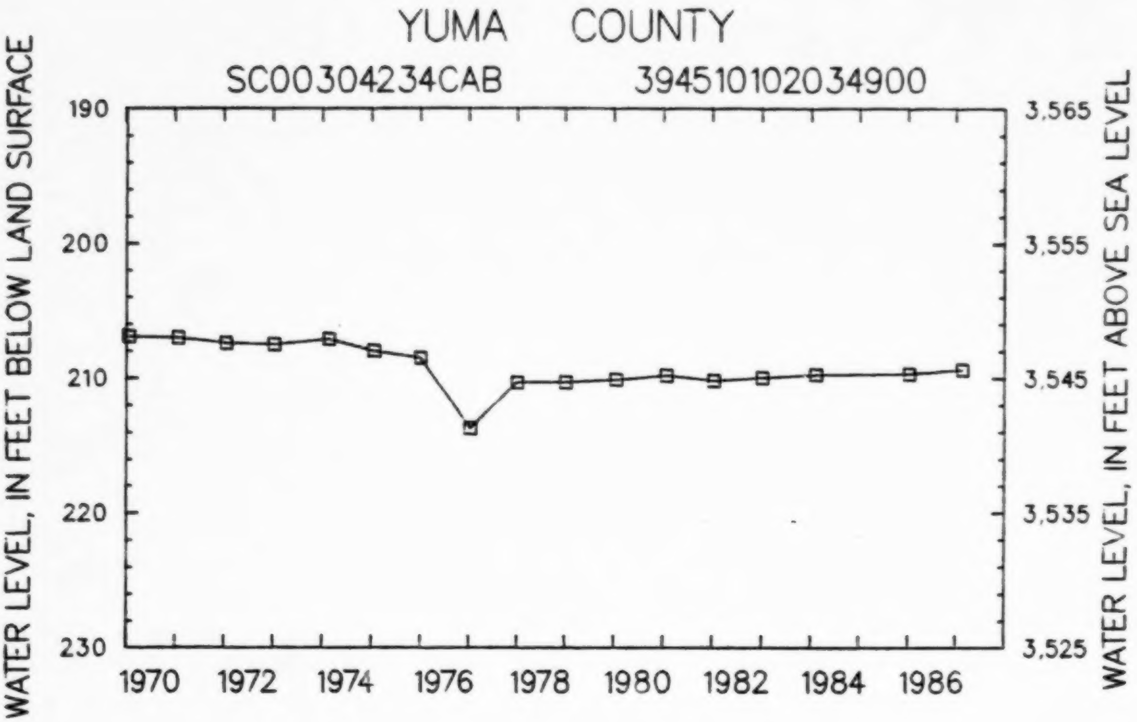


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



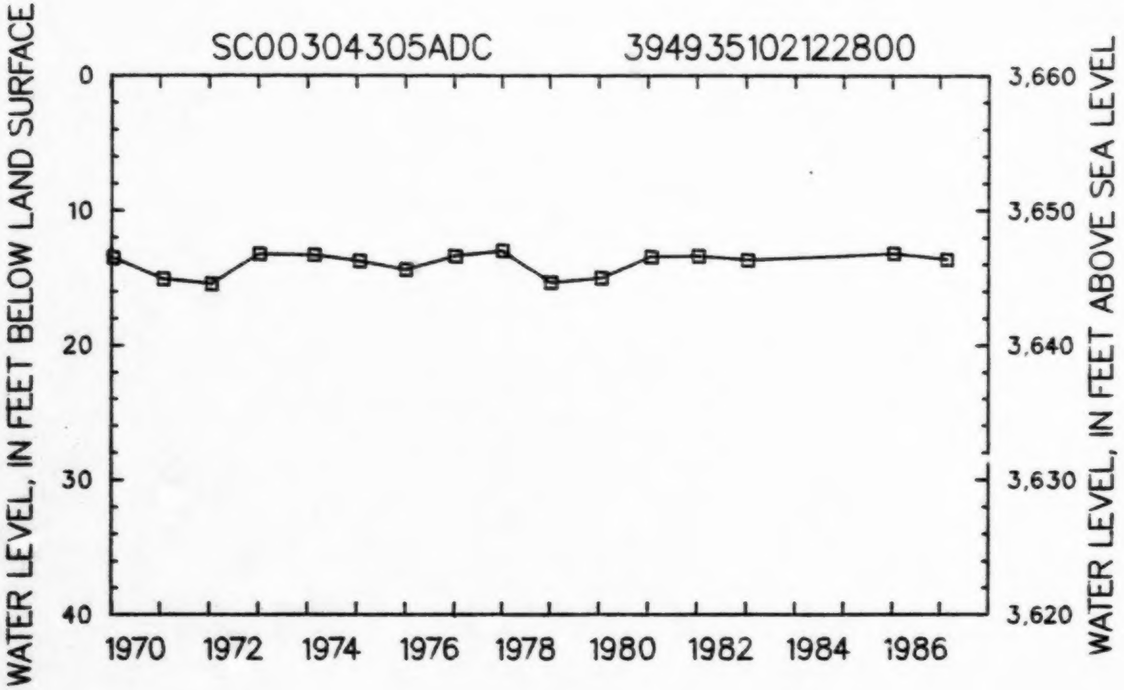
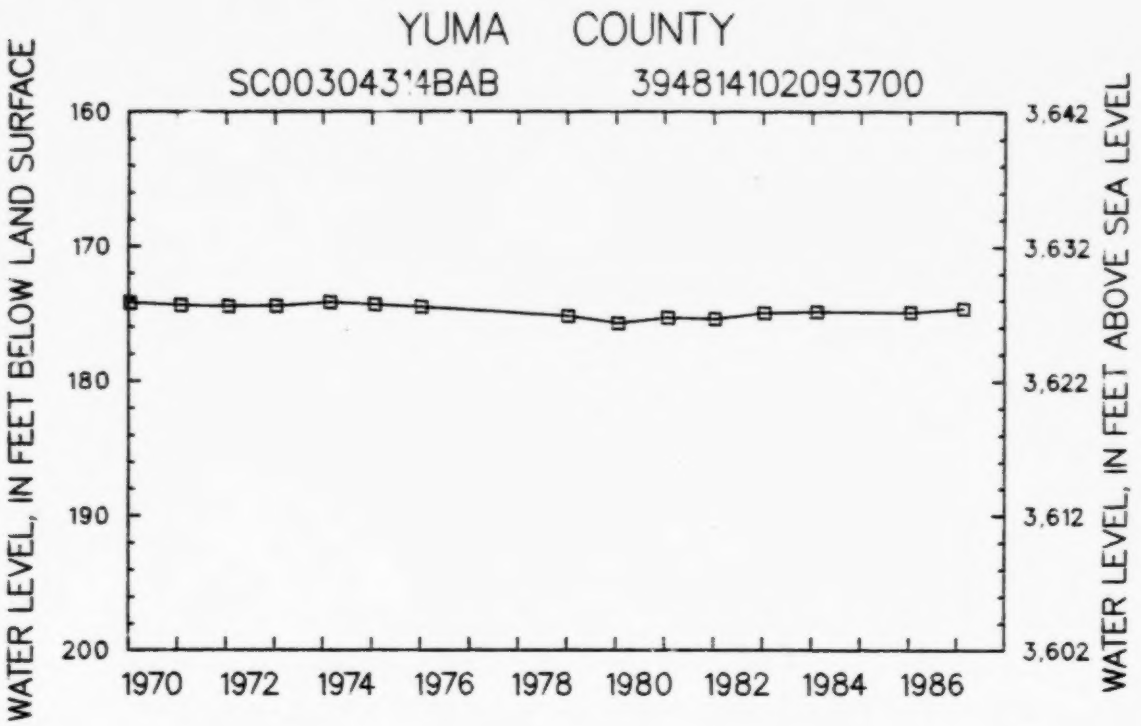


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



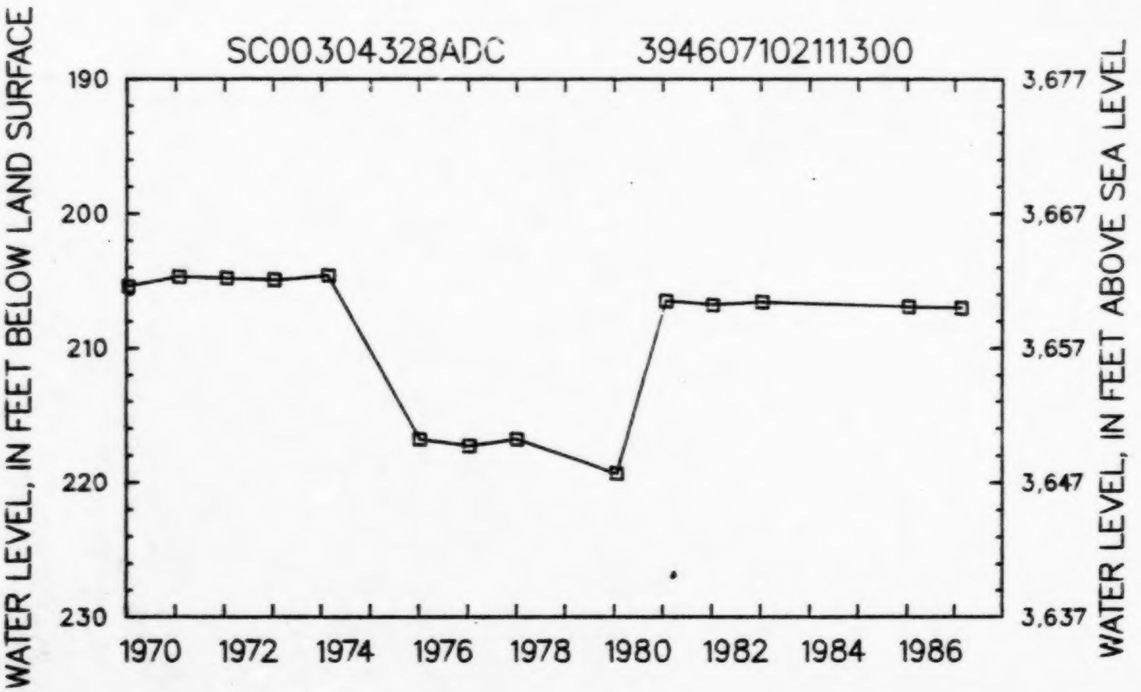


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

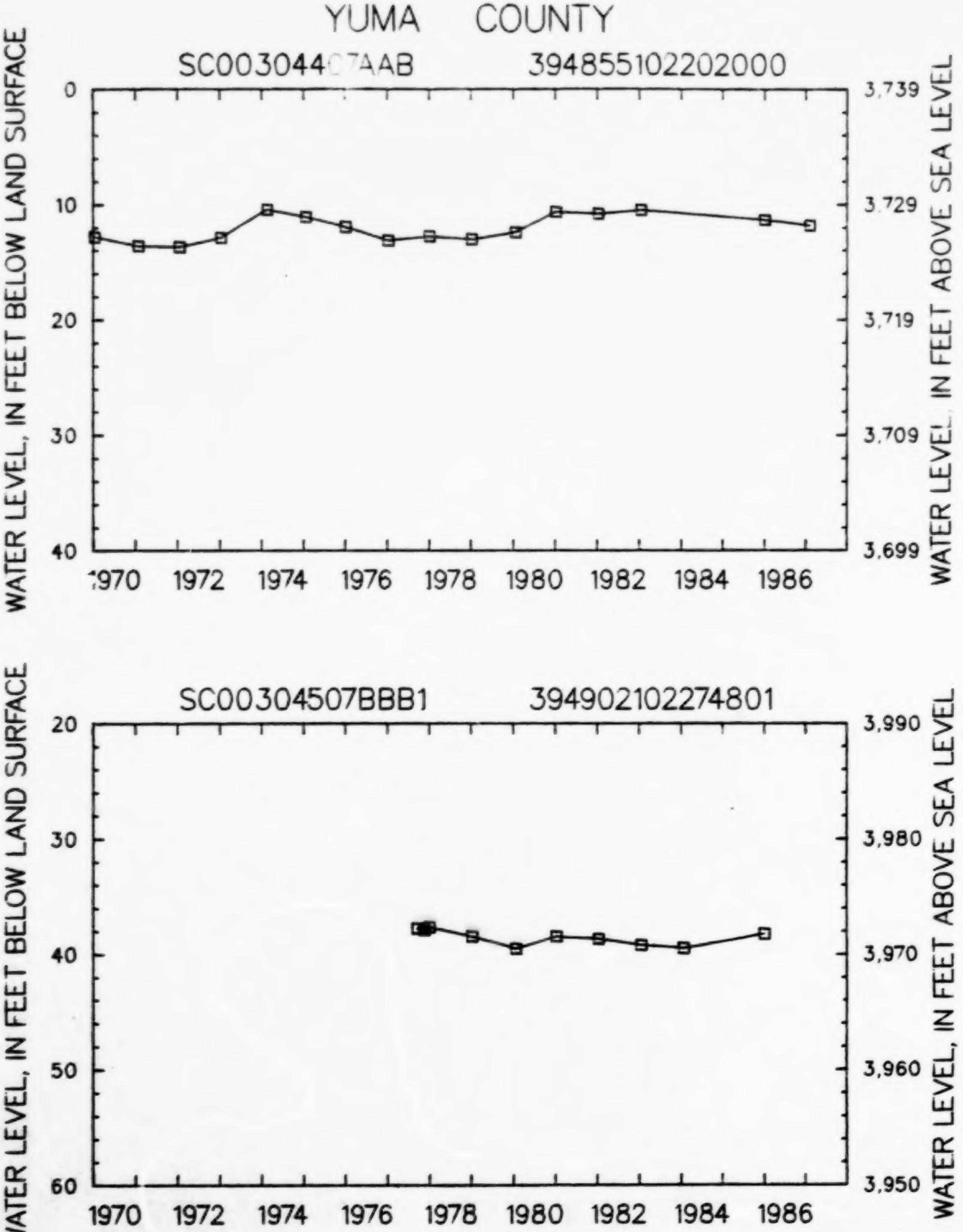
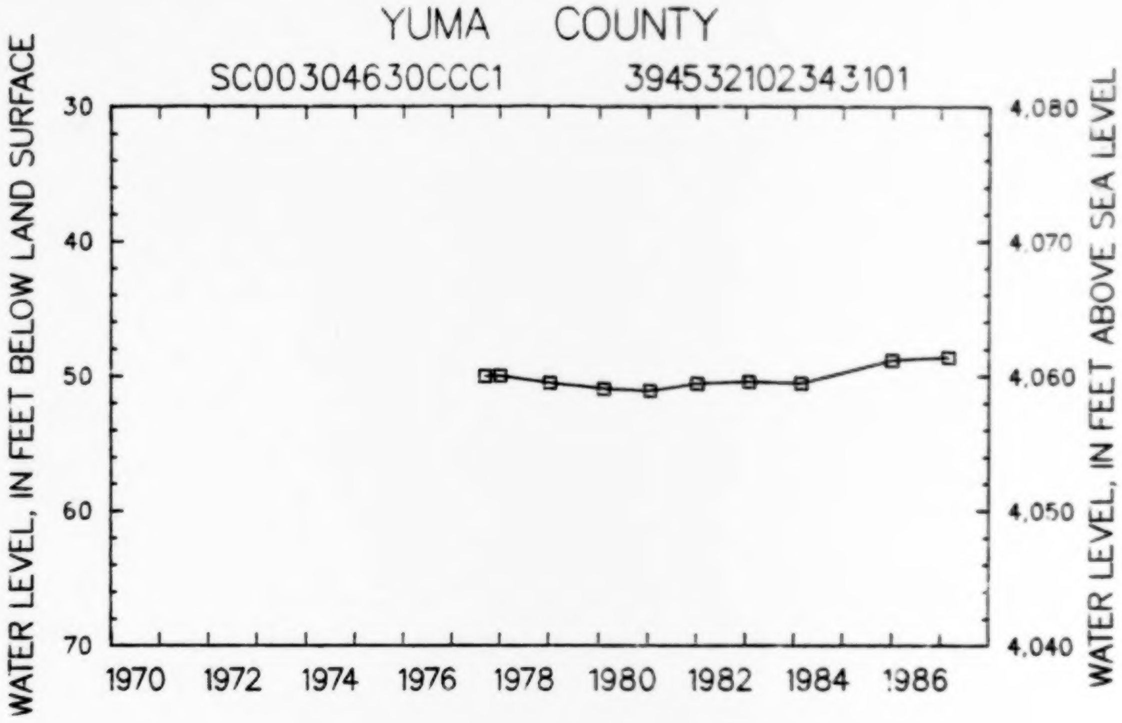


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



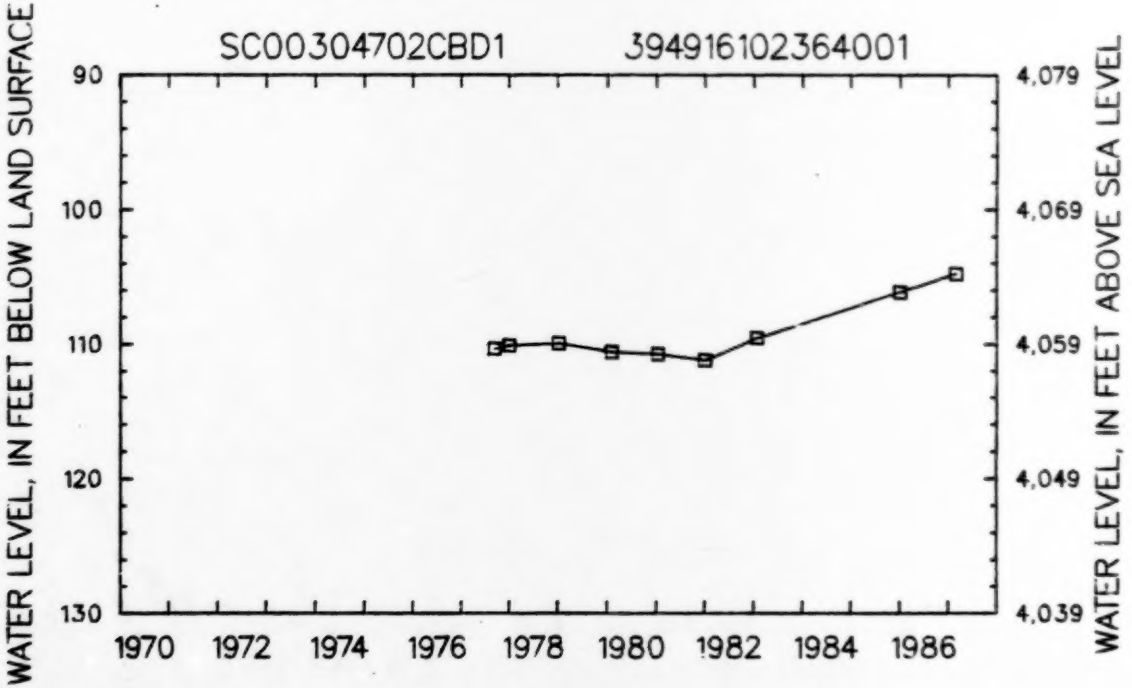


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

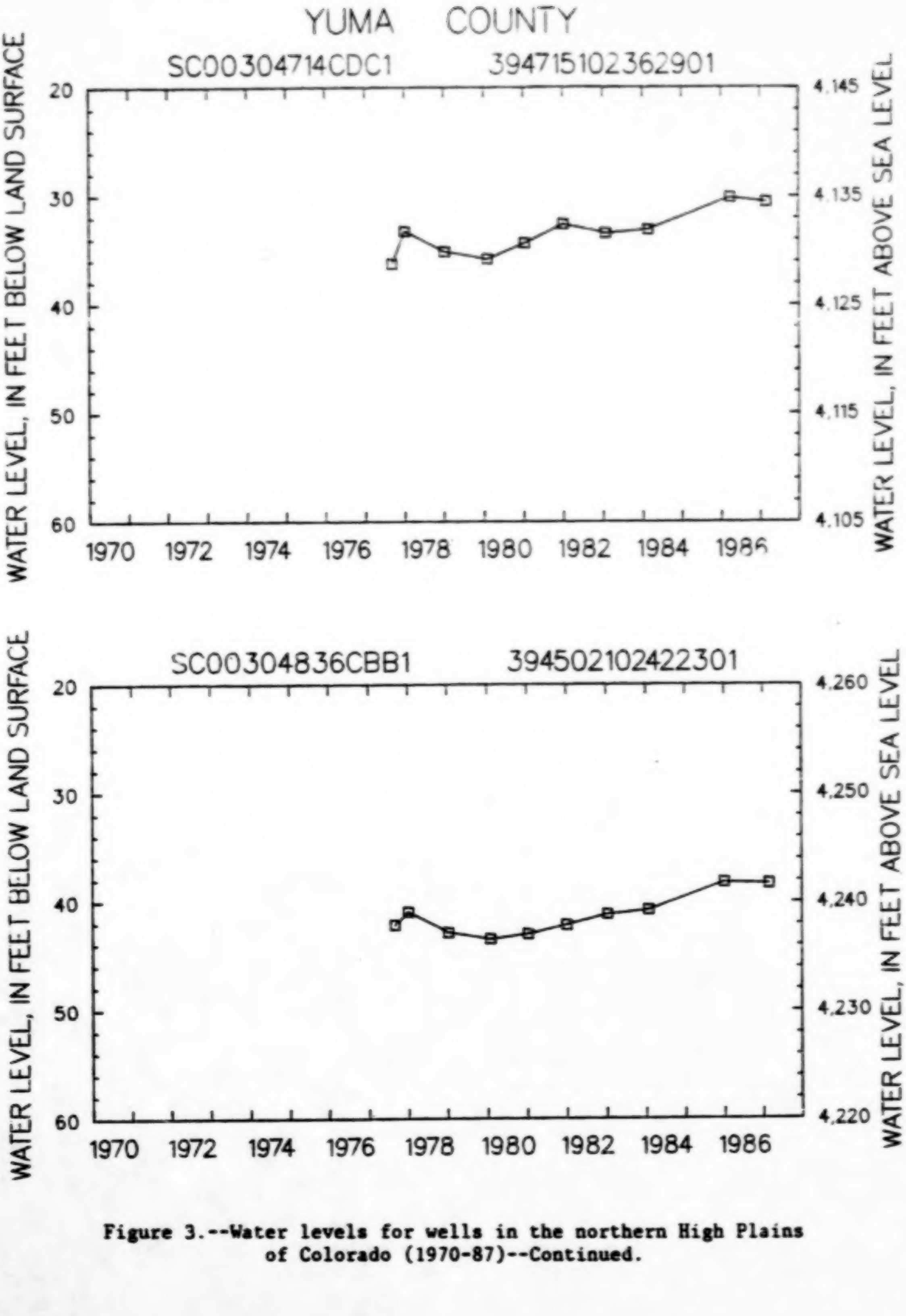
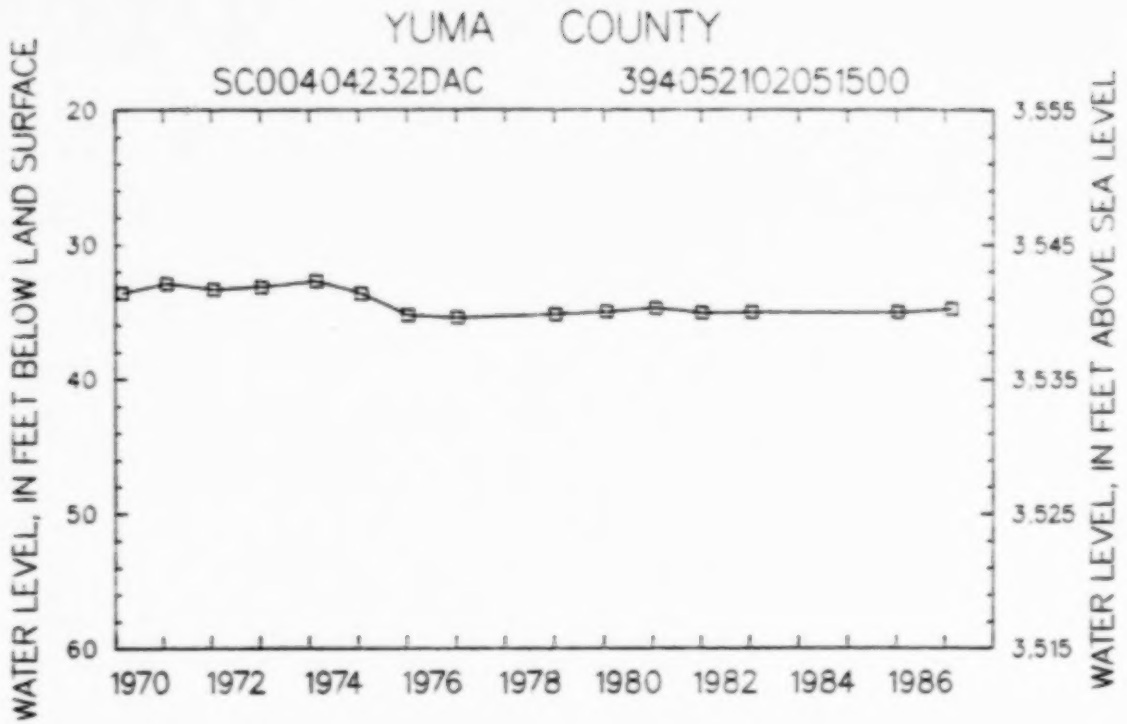


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



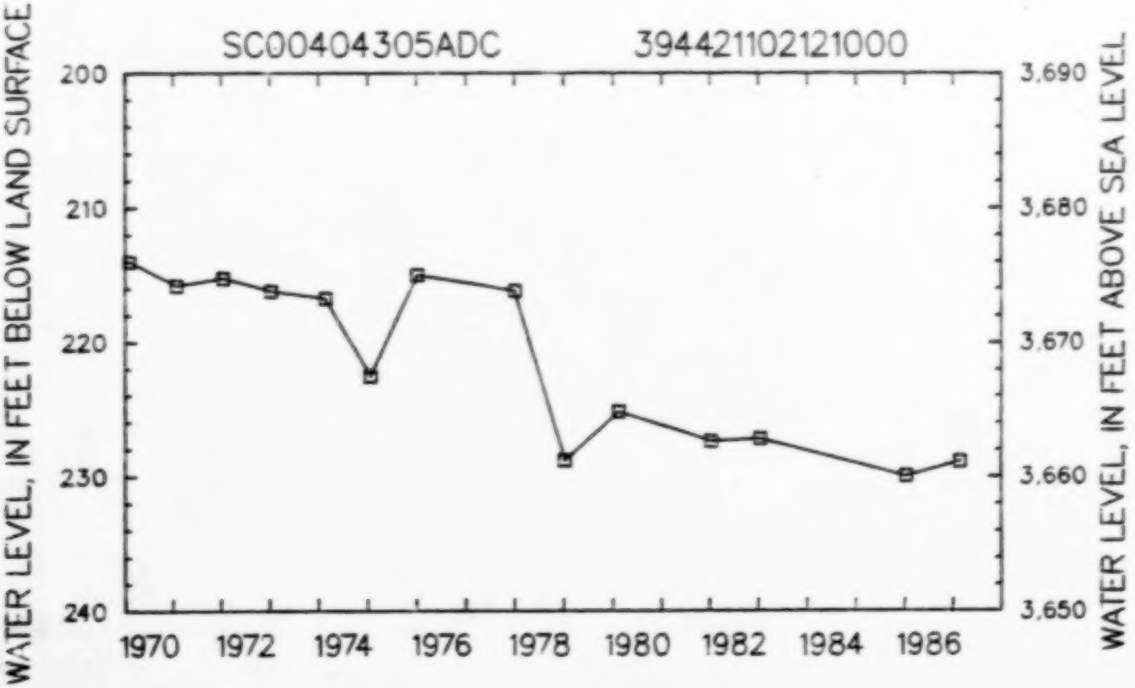


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

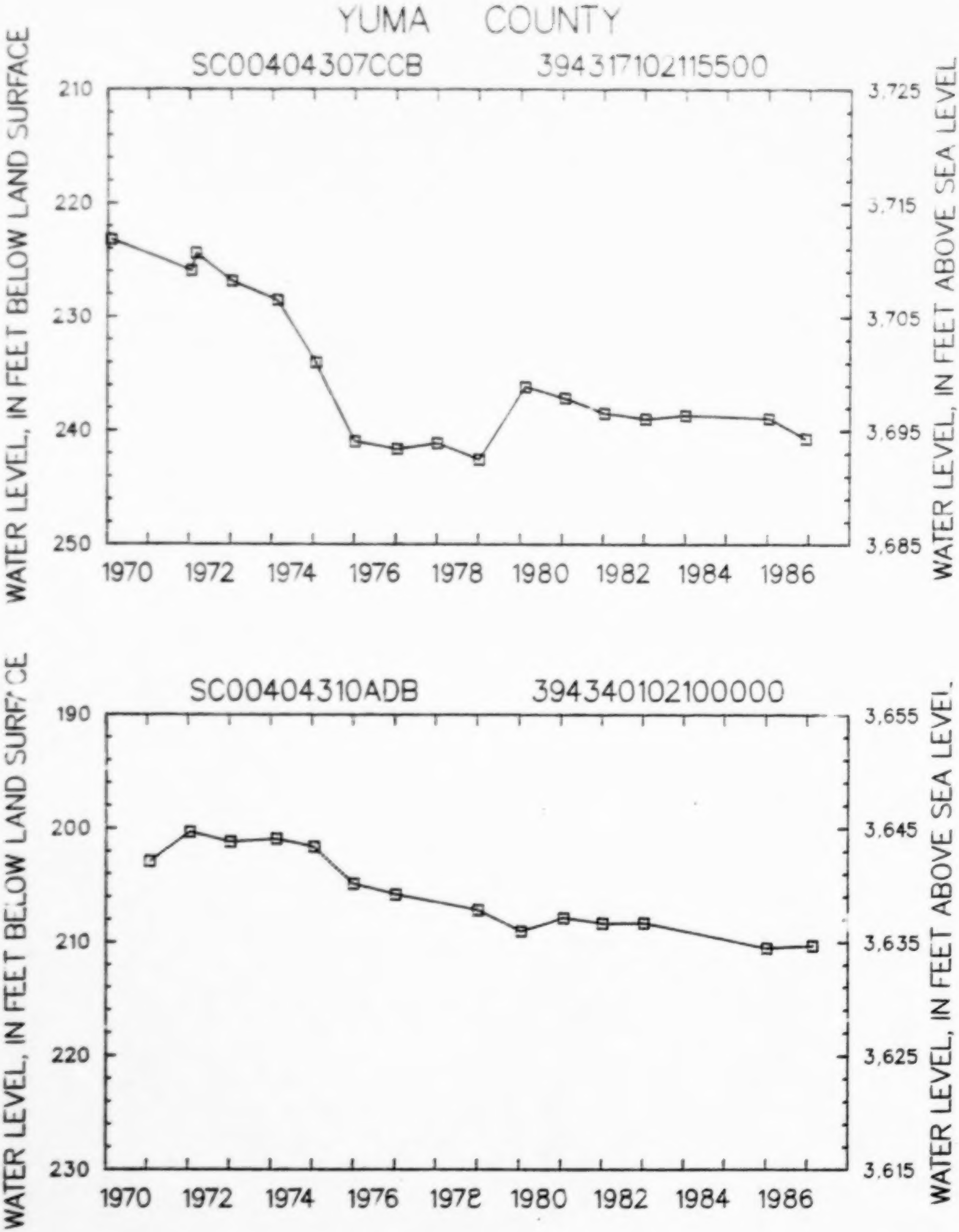


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

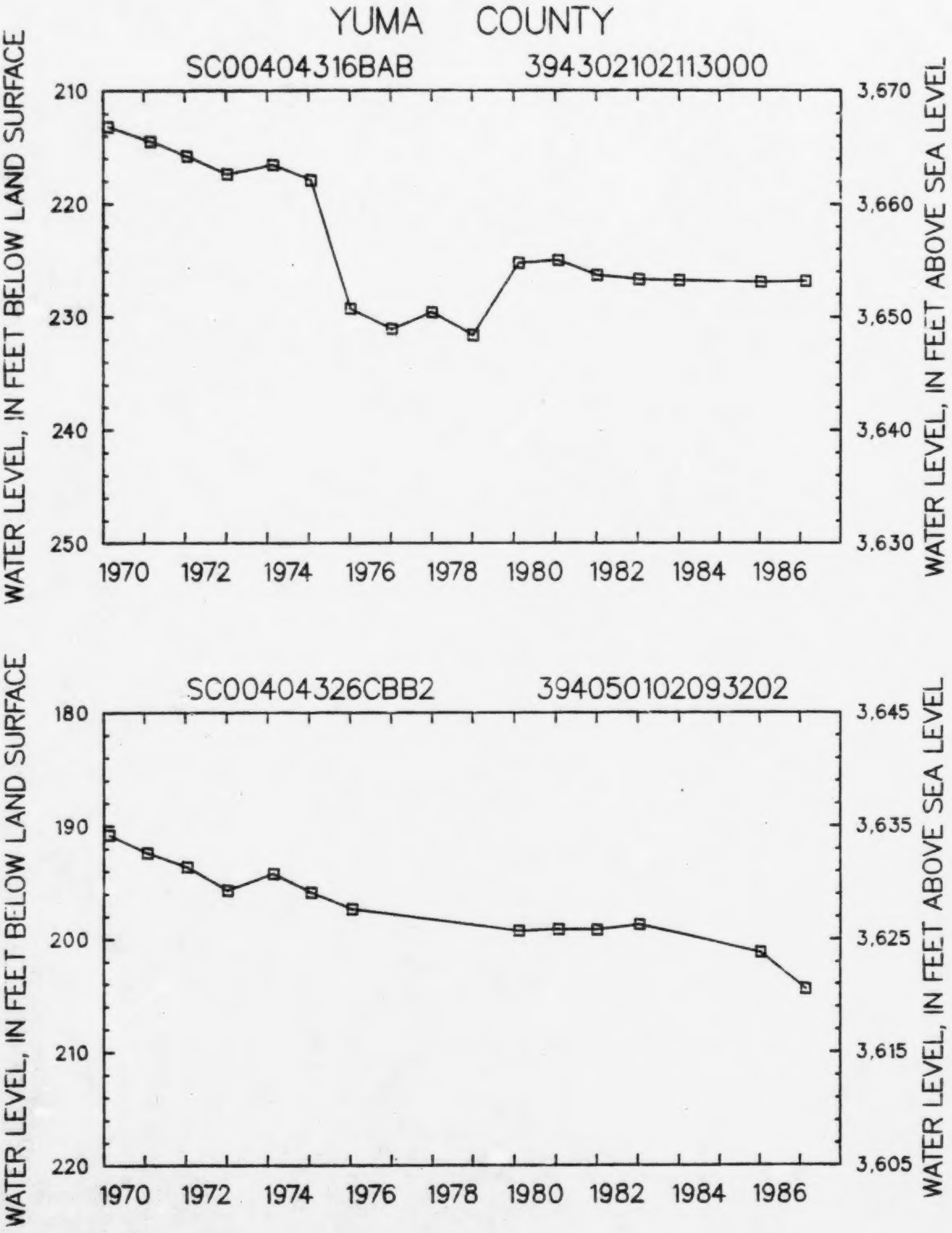


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

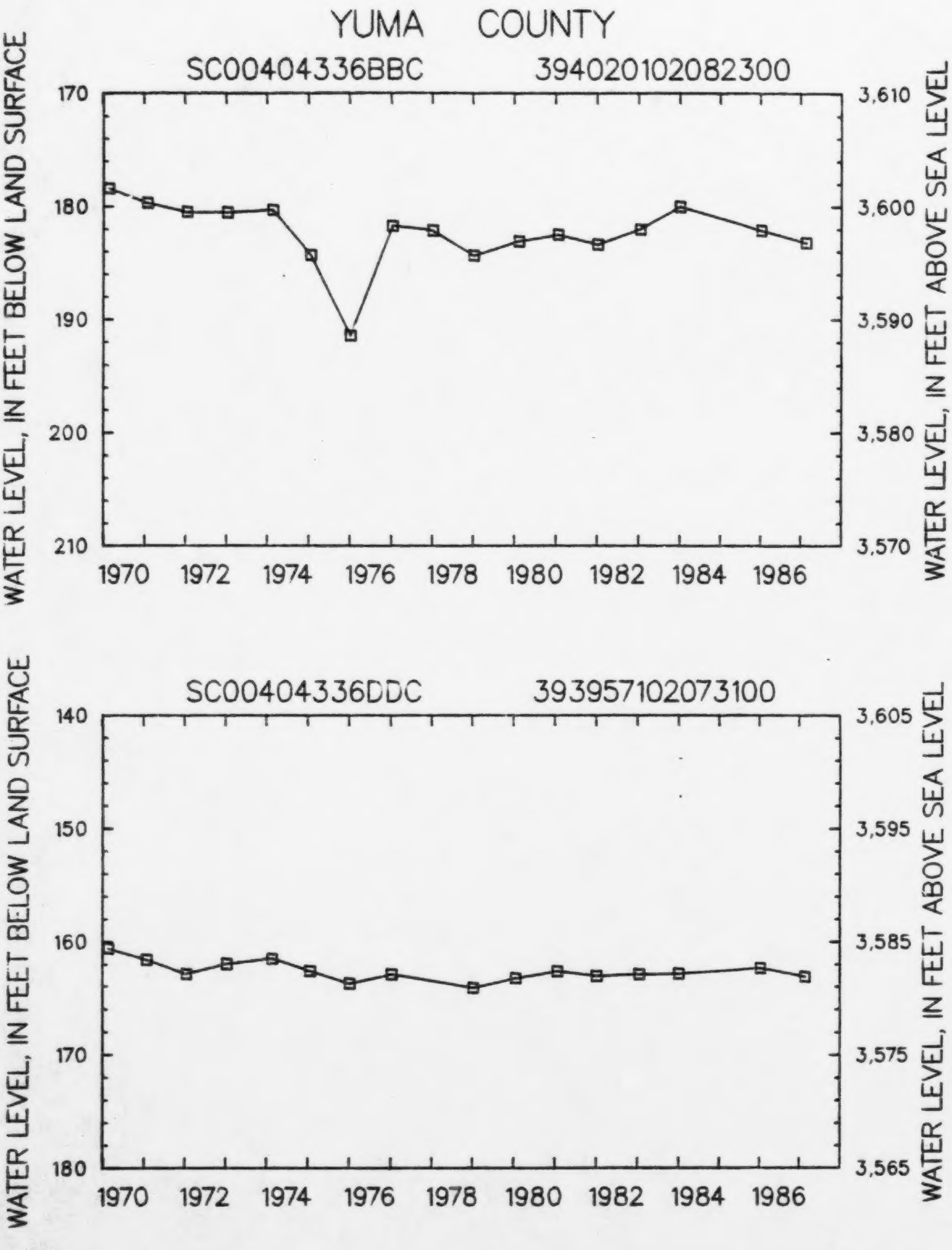


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

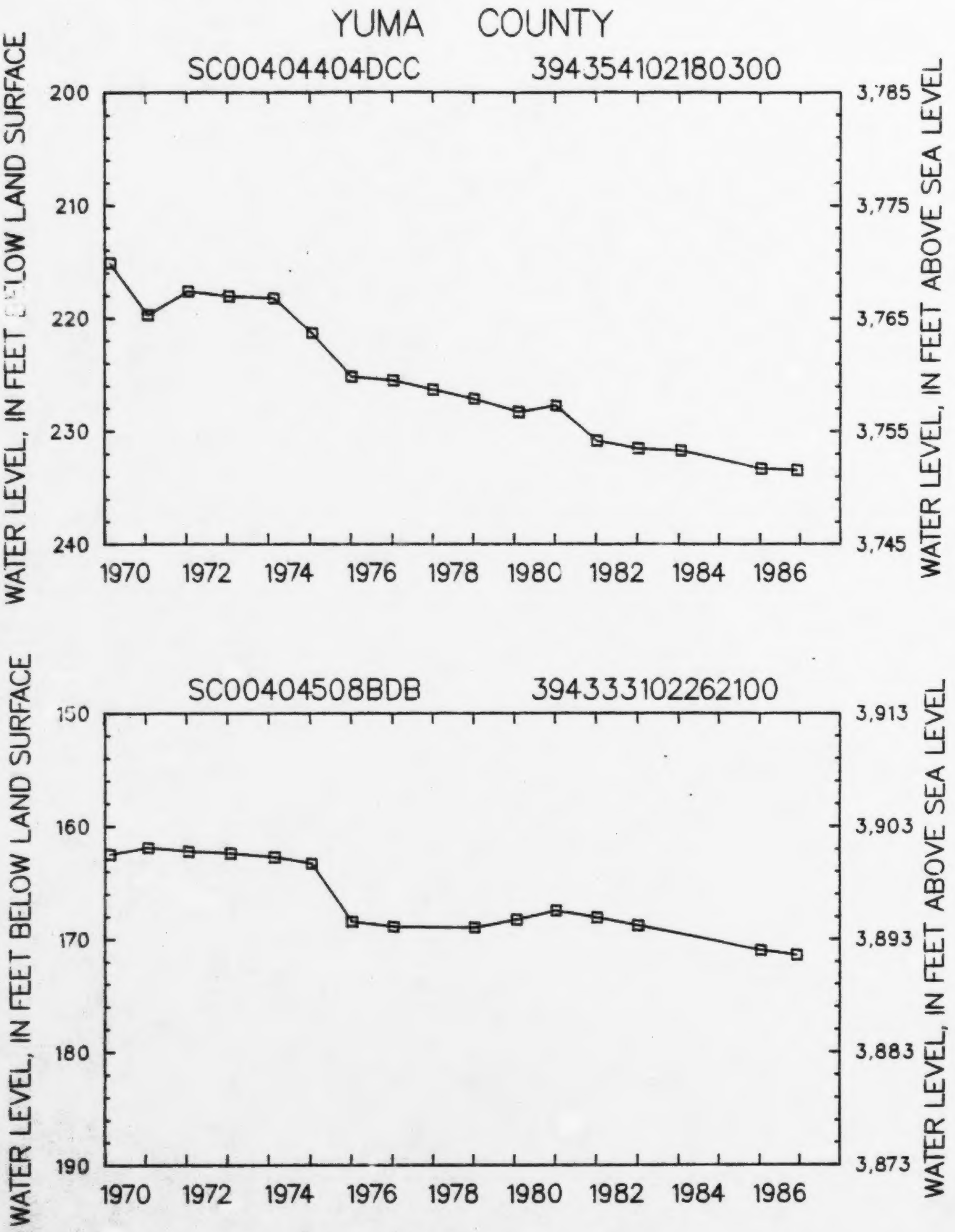


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

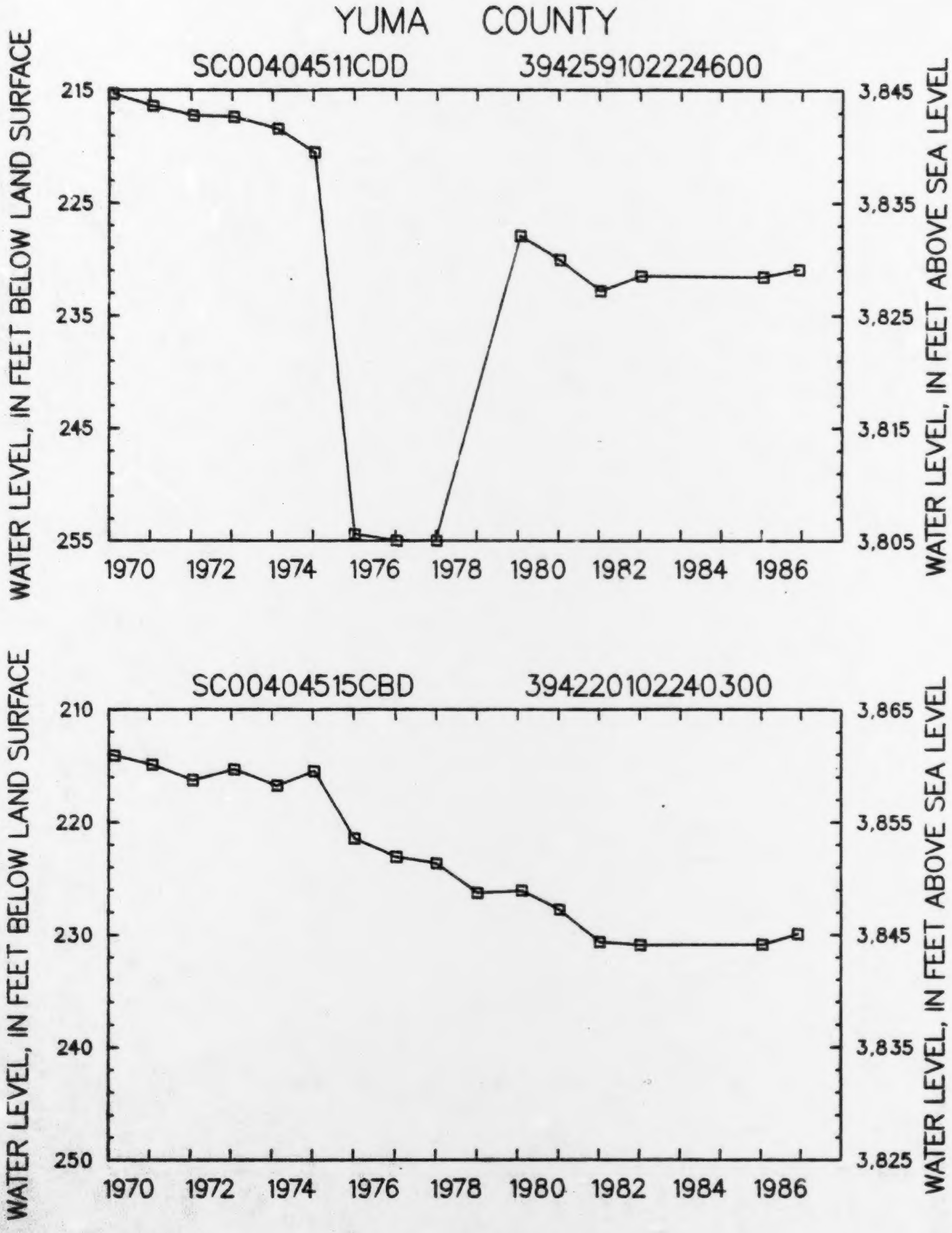


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

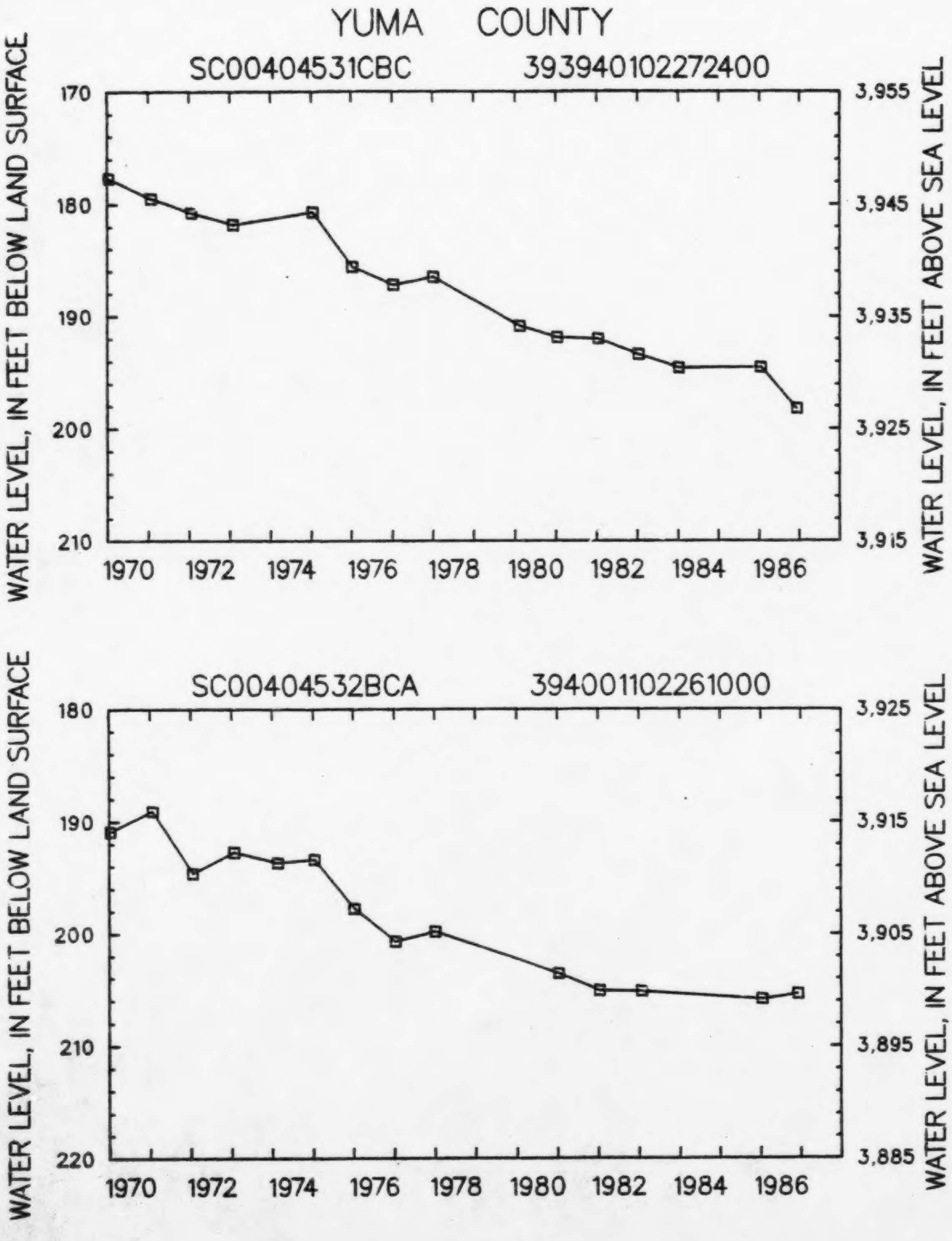


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

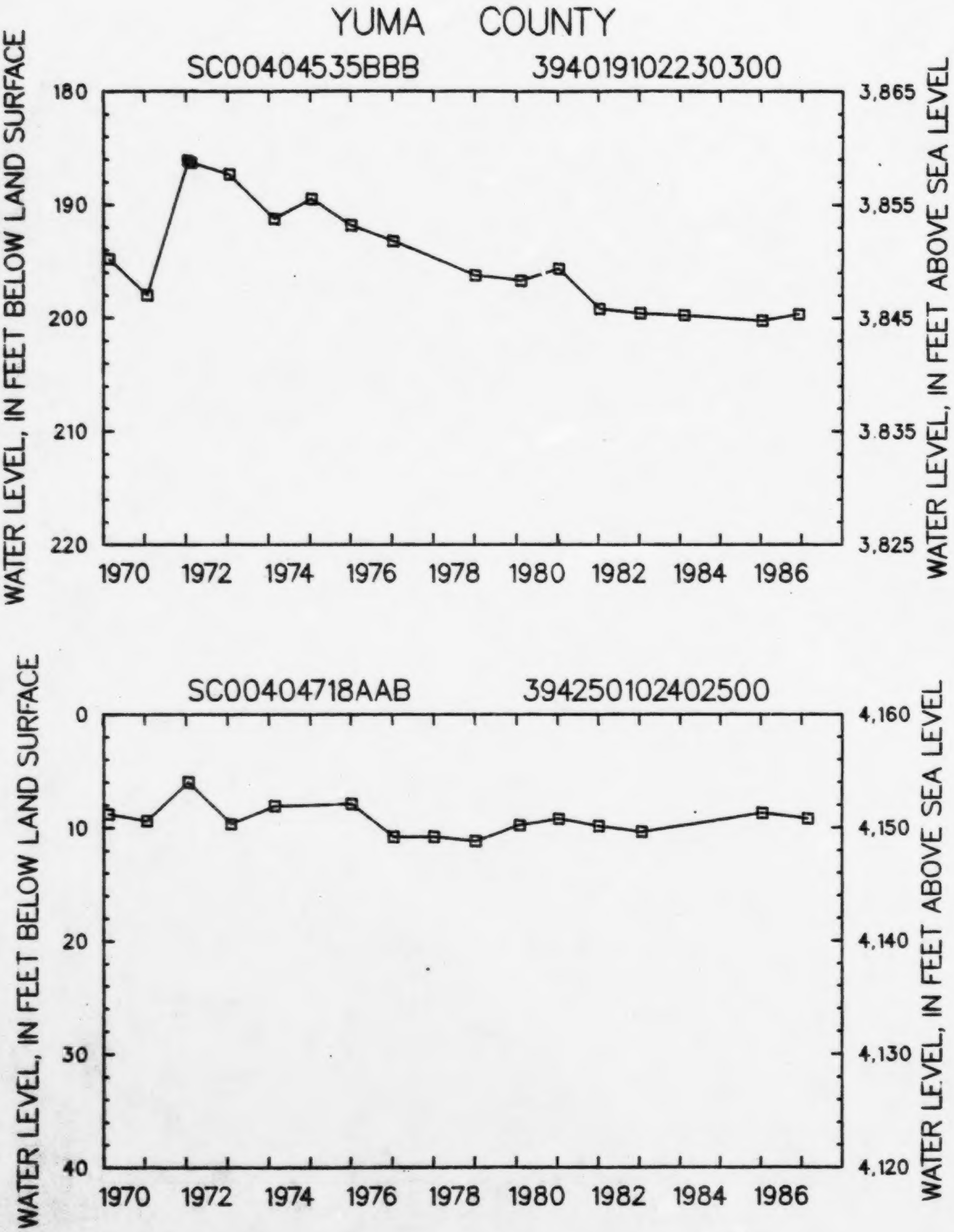


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

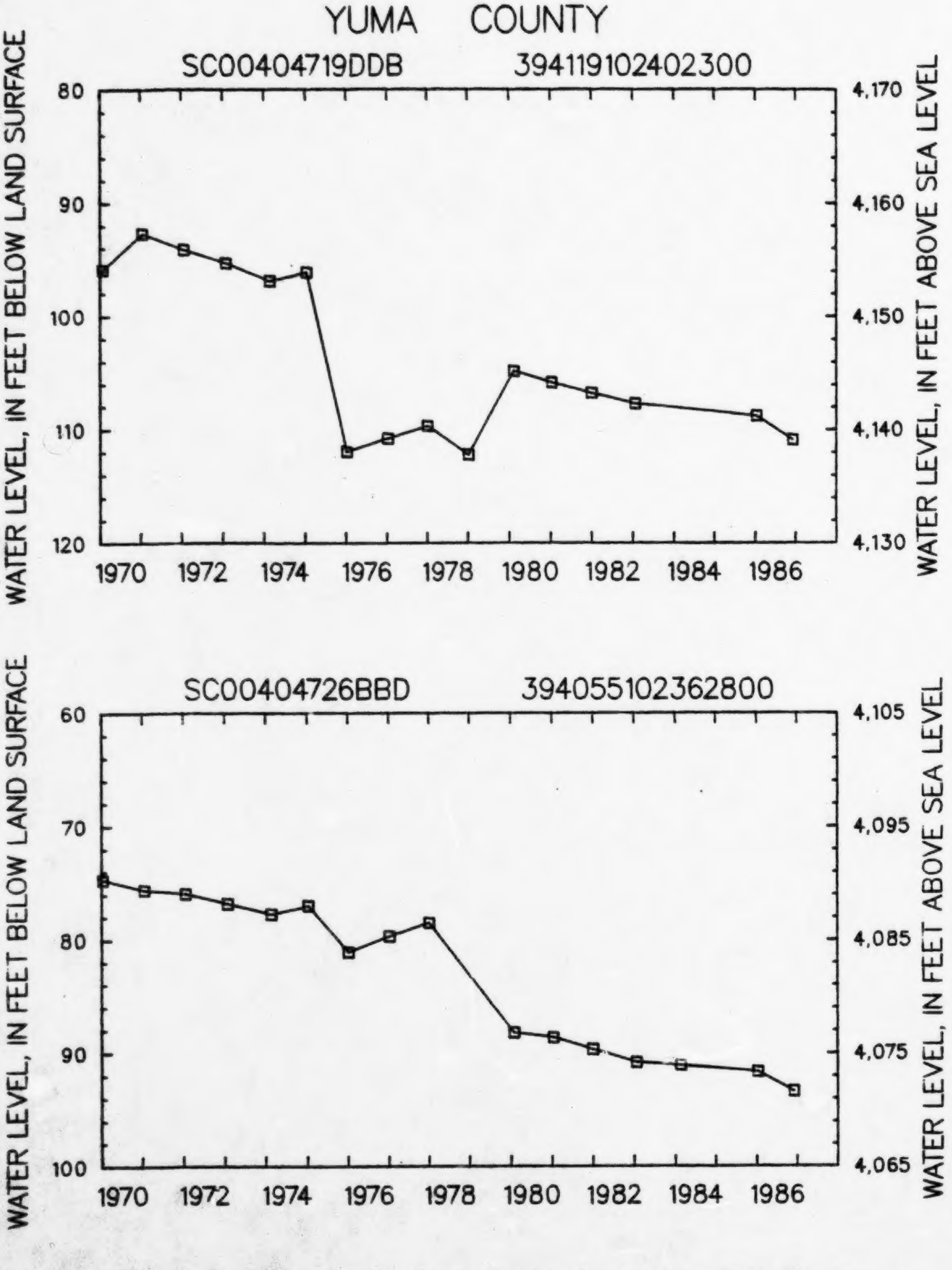


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

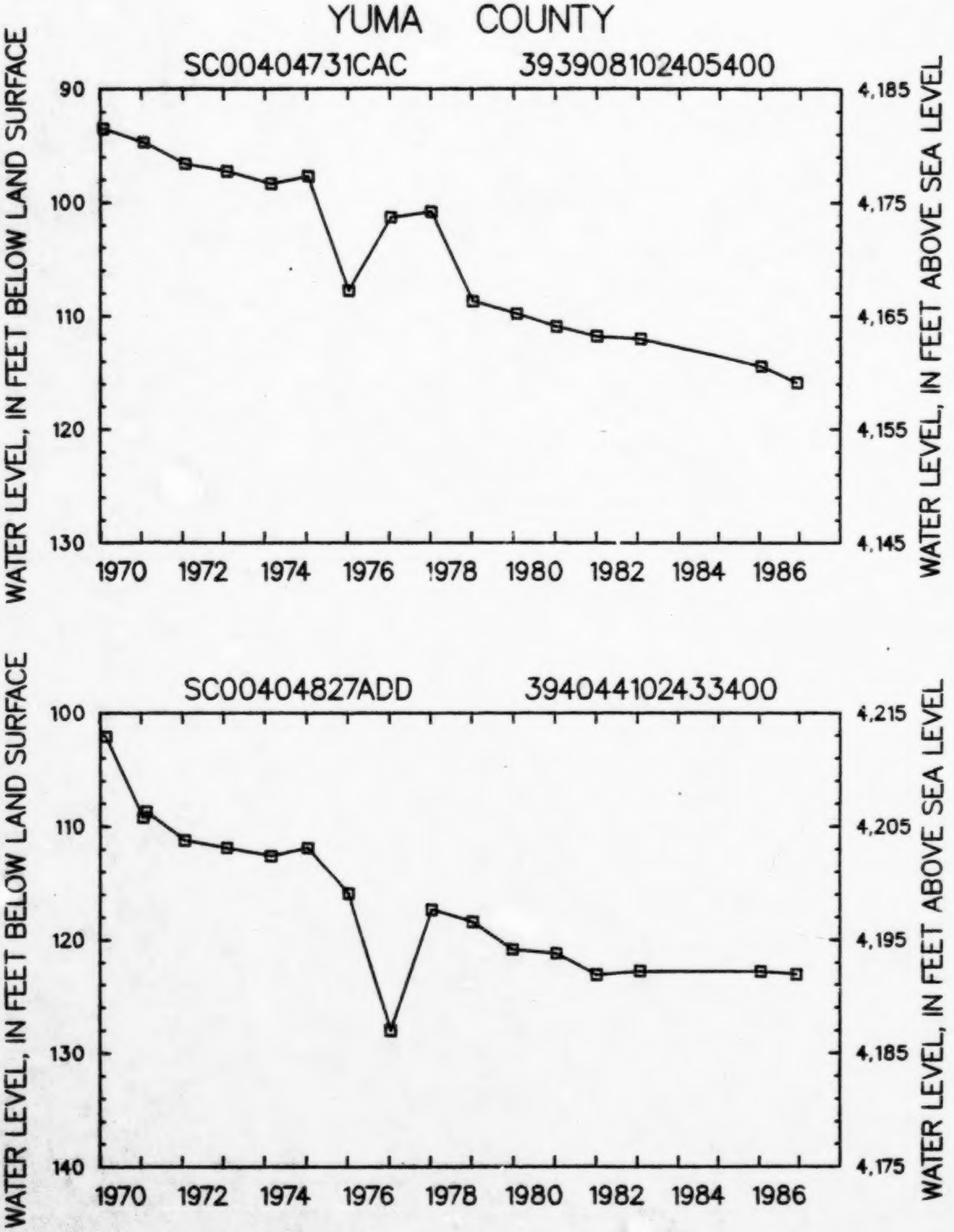


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

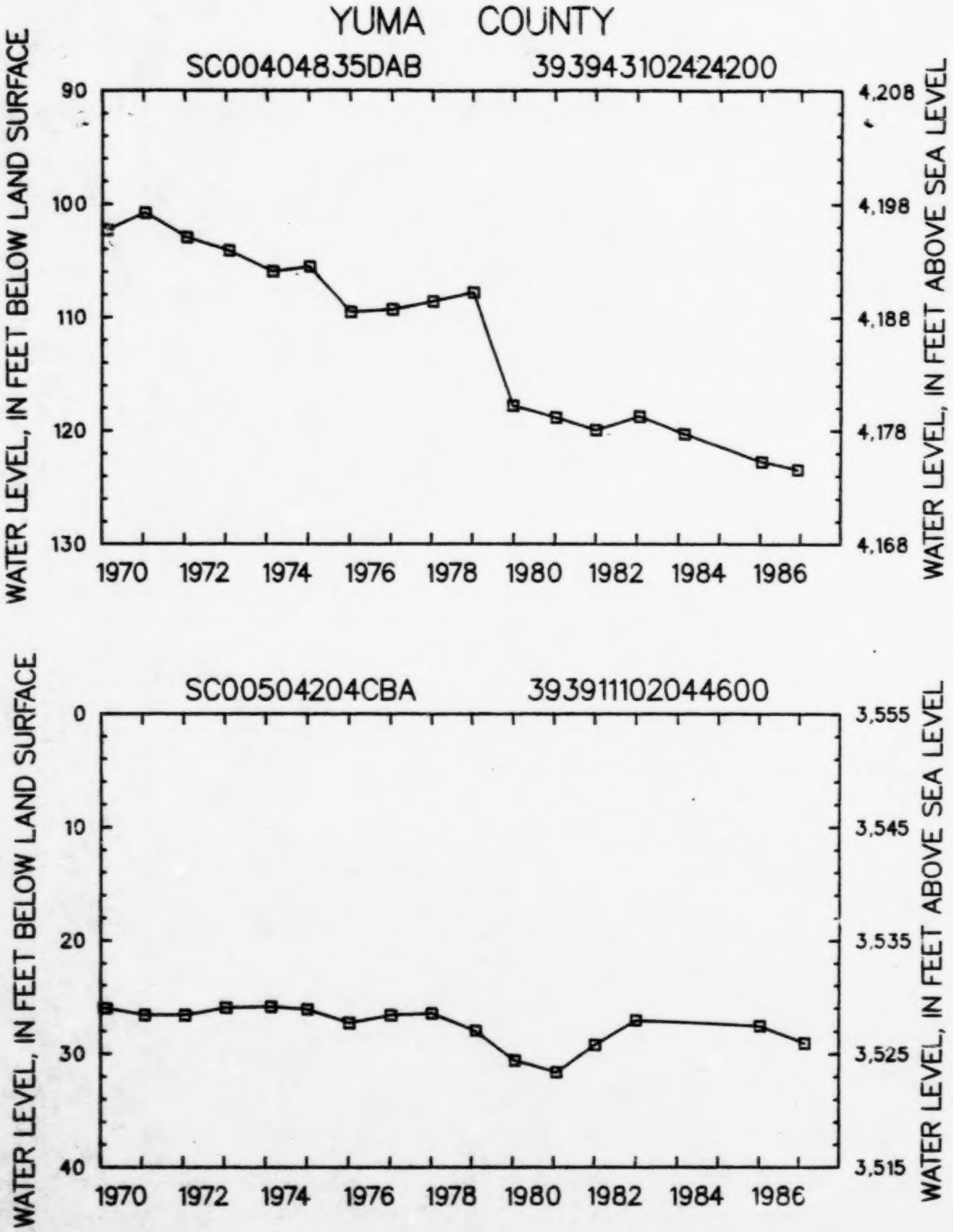
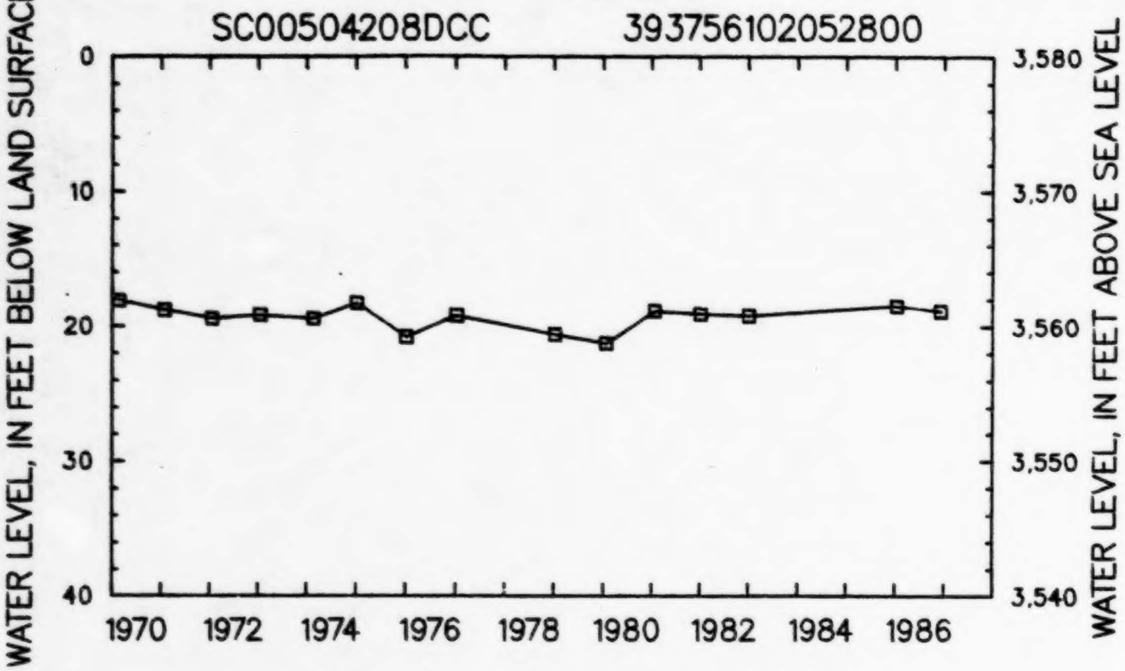


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY



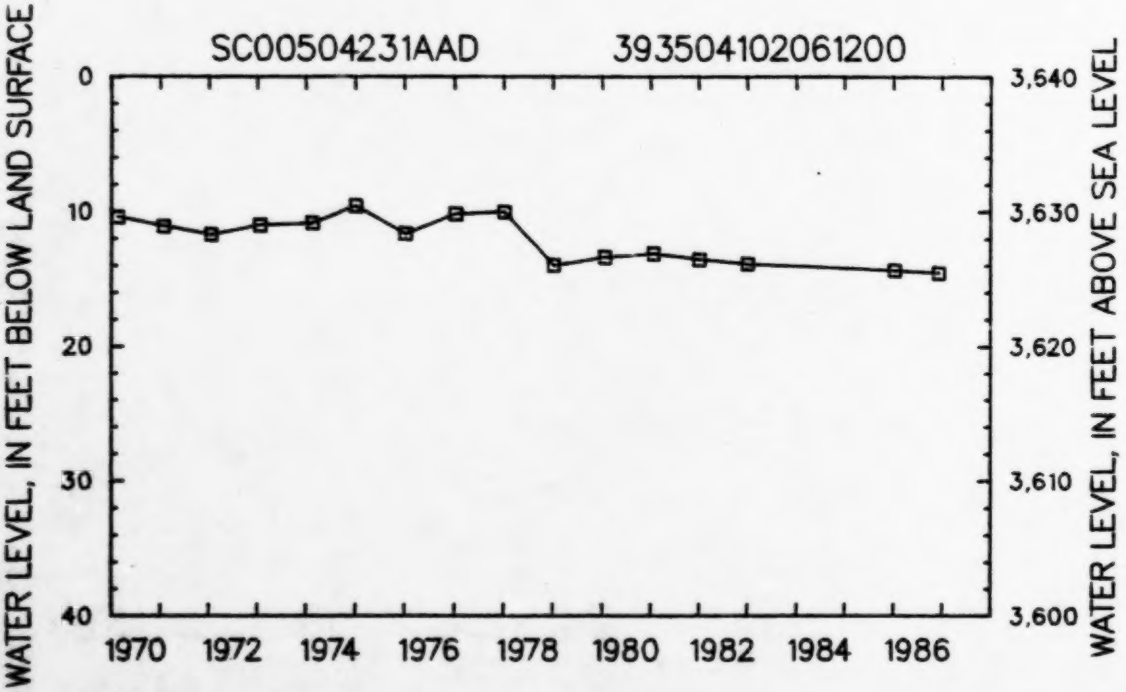


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

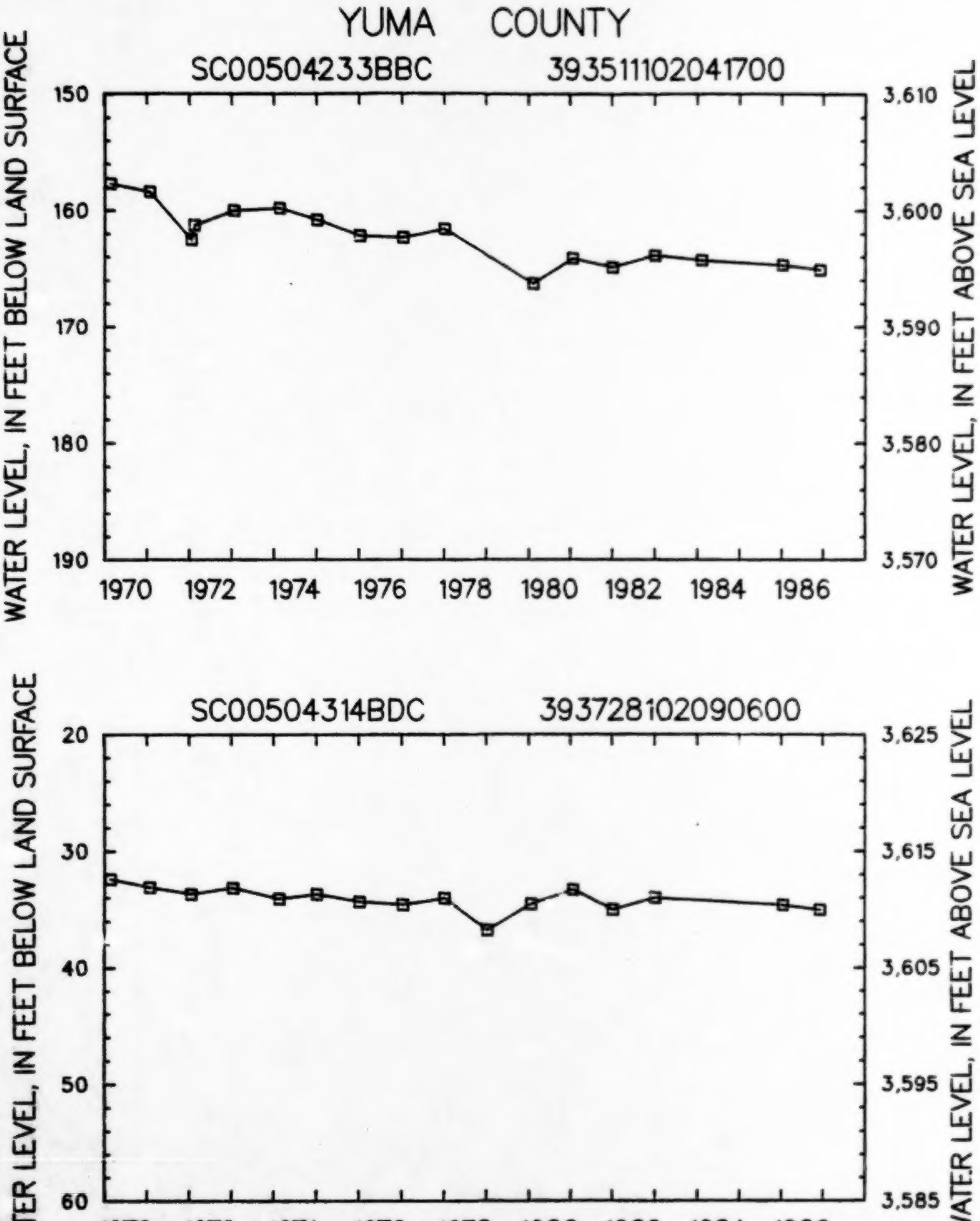


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

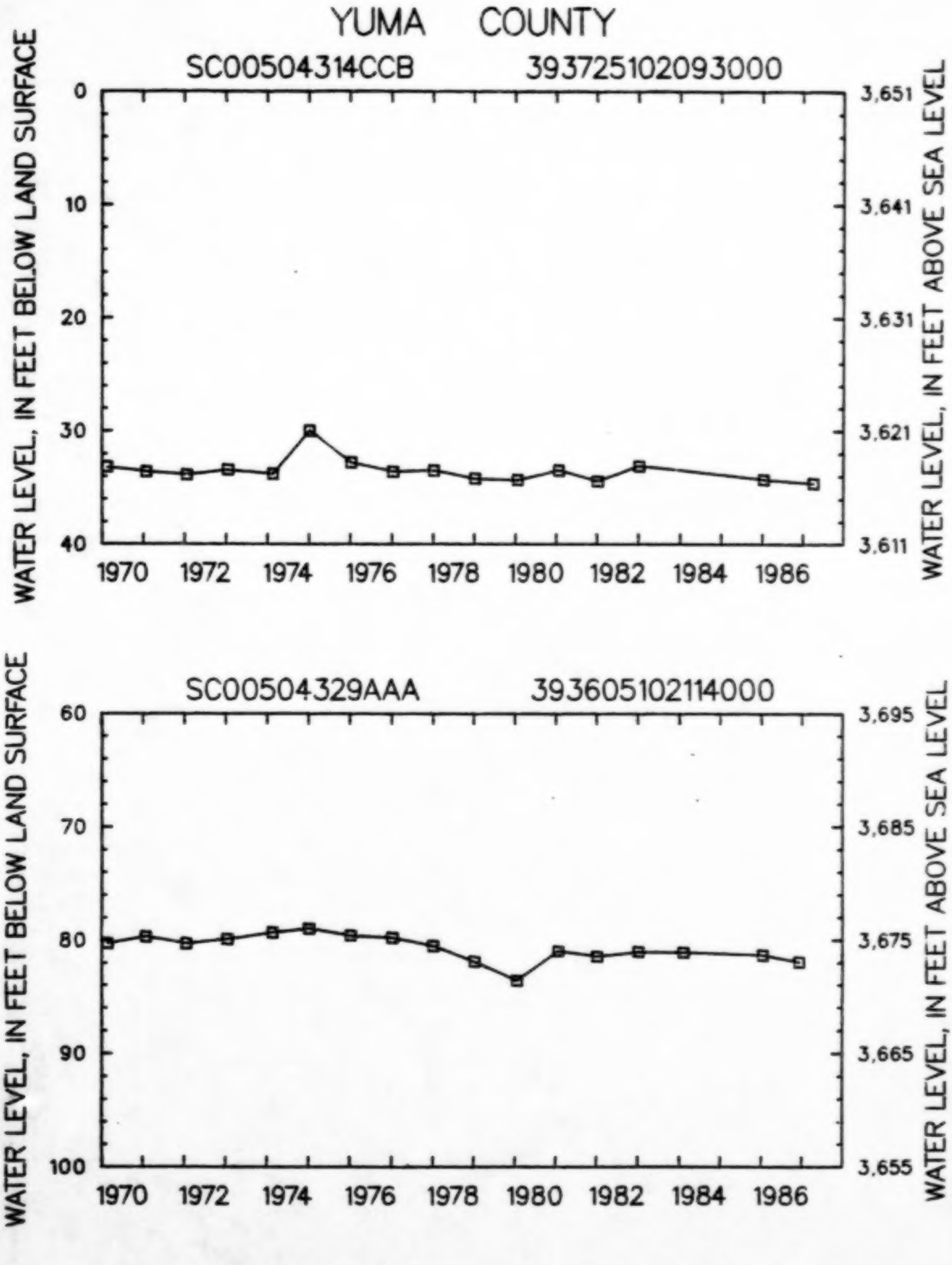


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

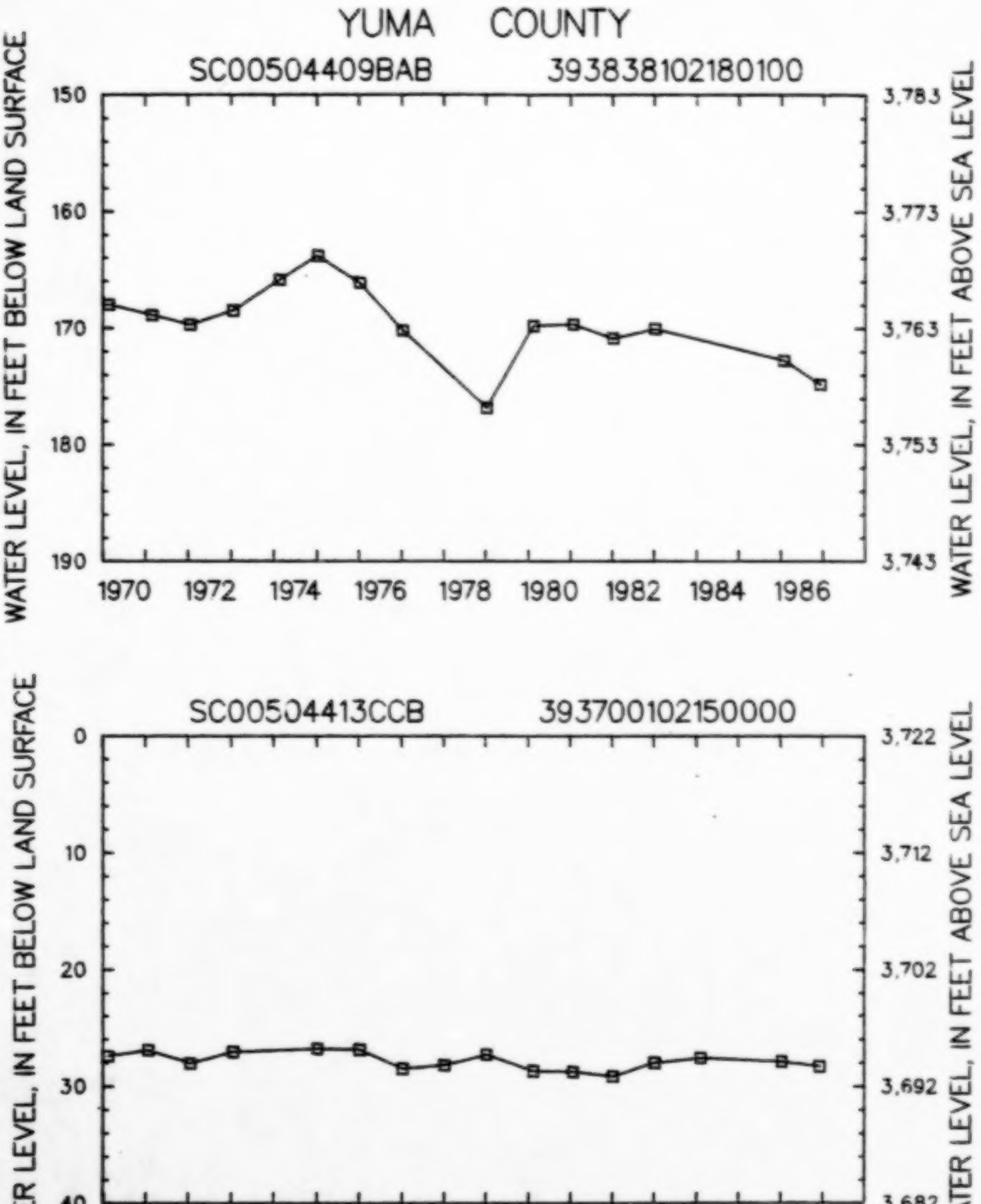


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY

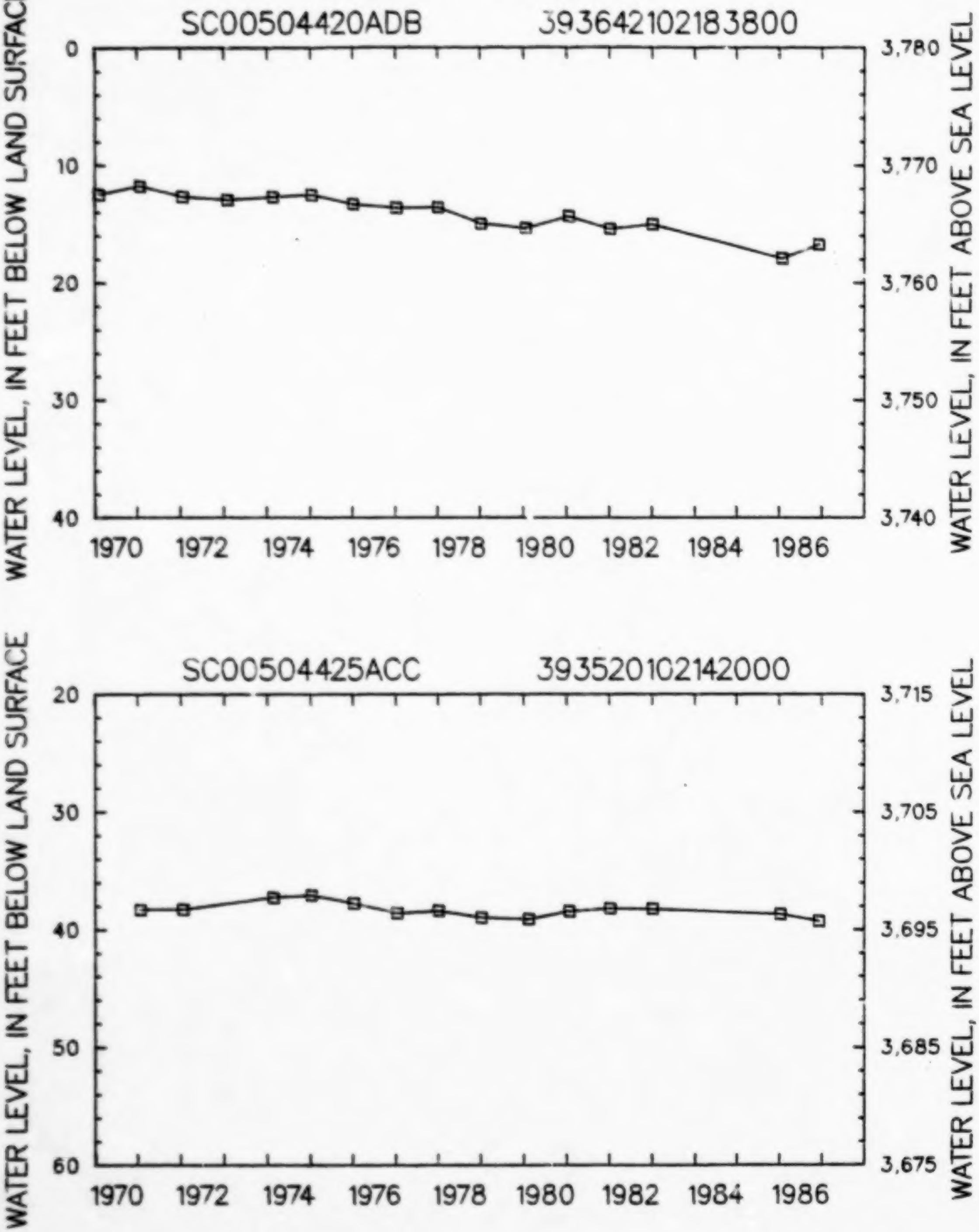


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

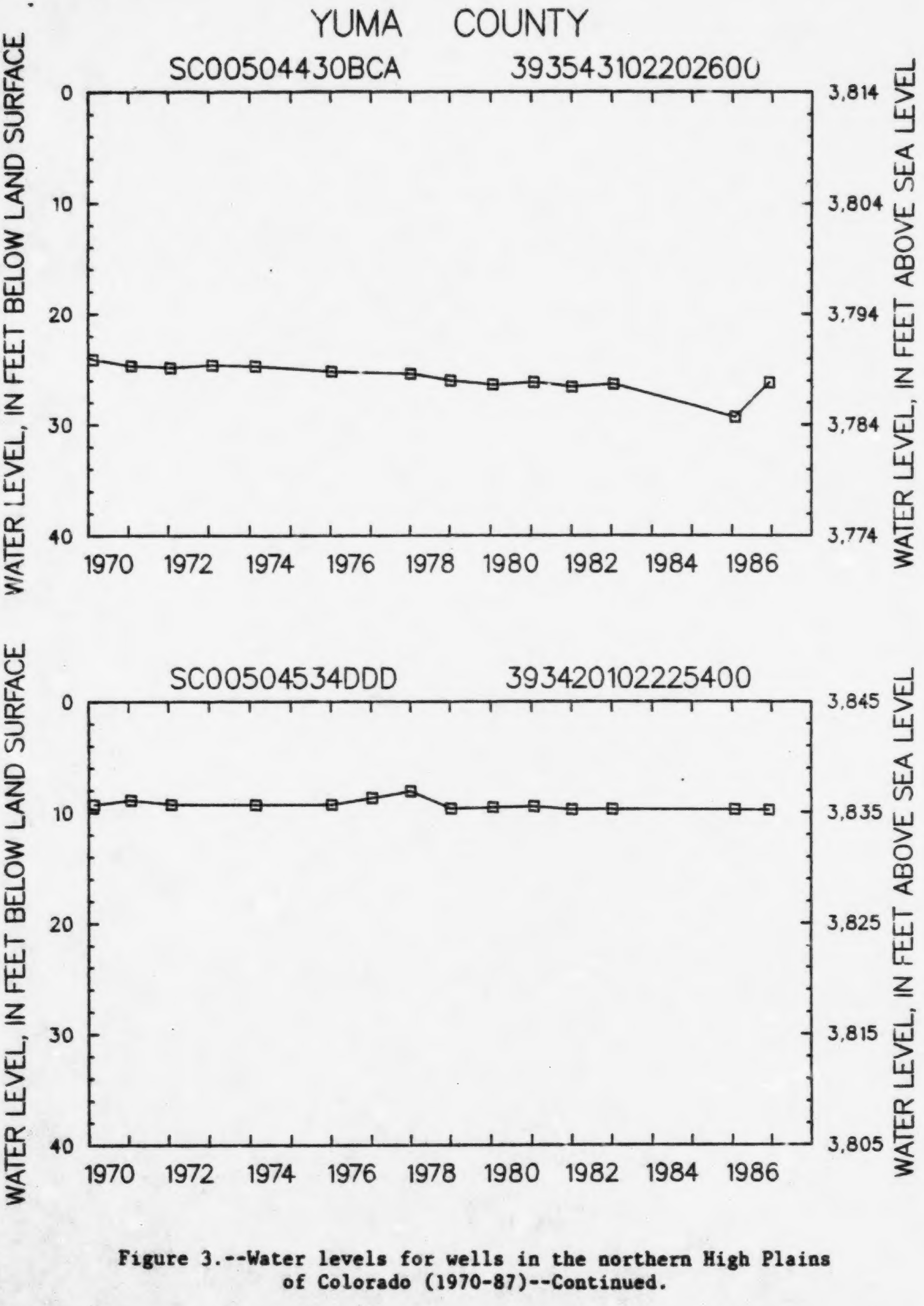


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

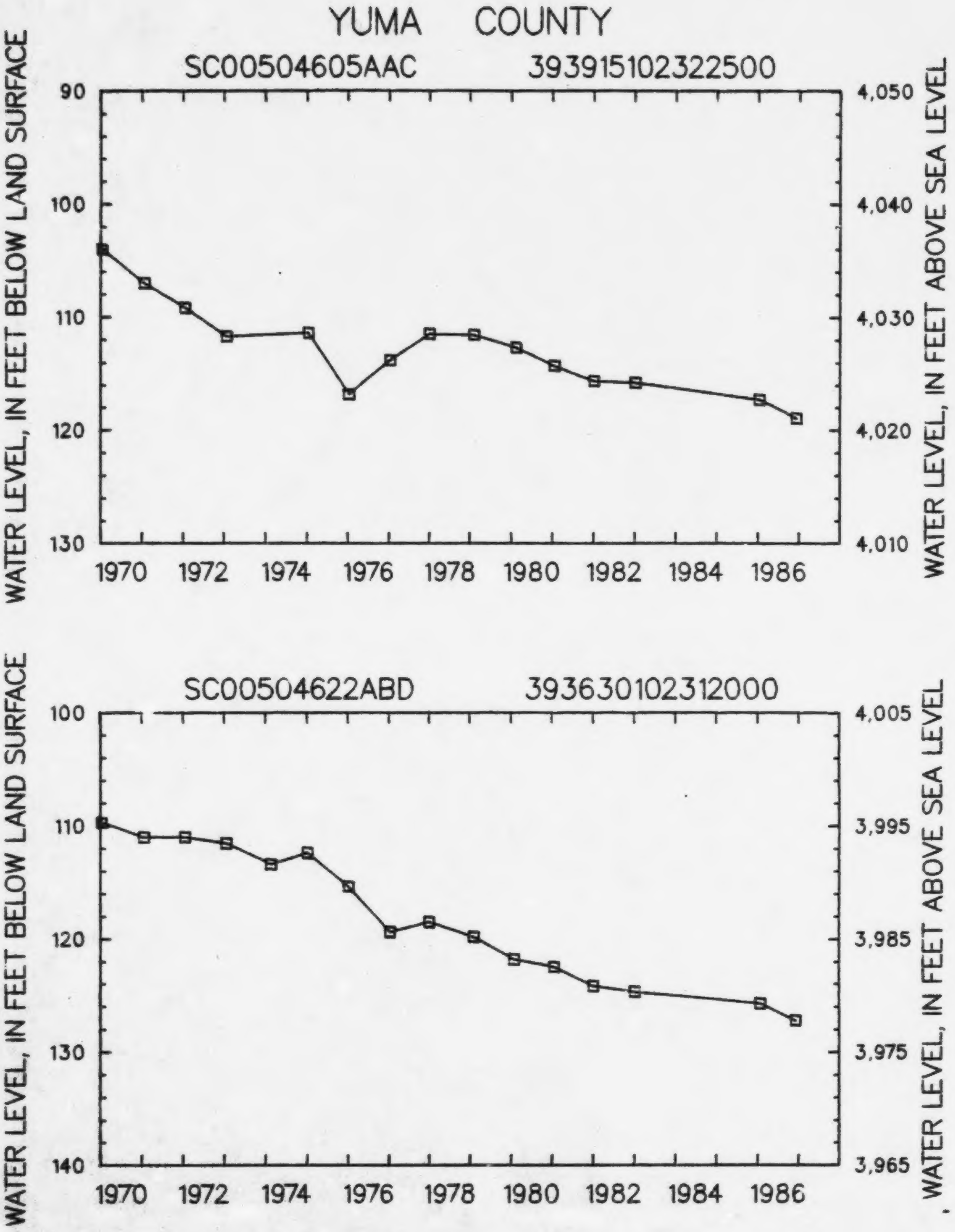


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

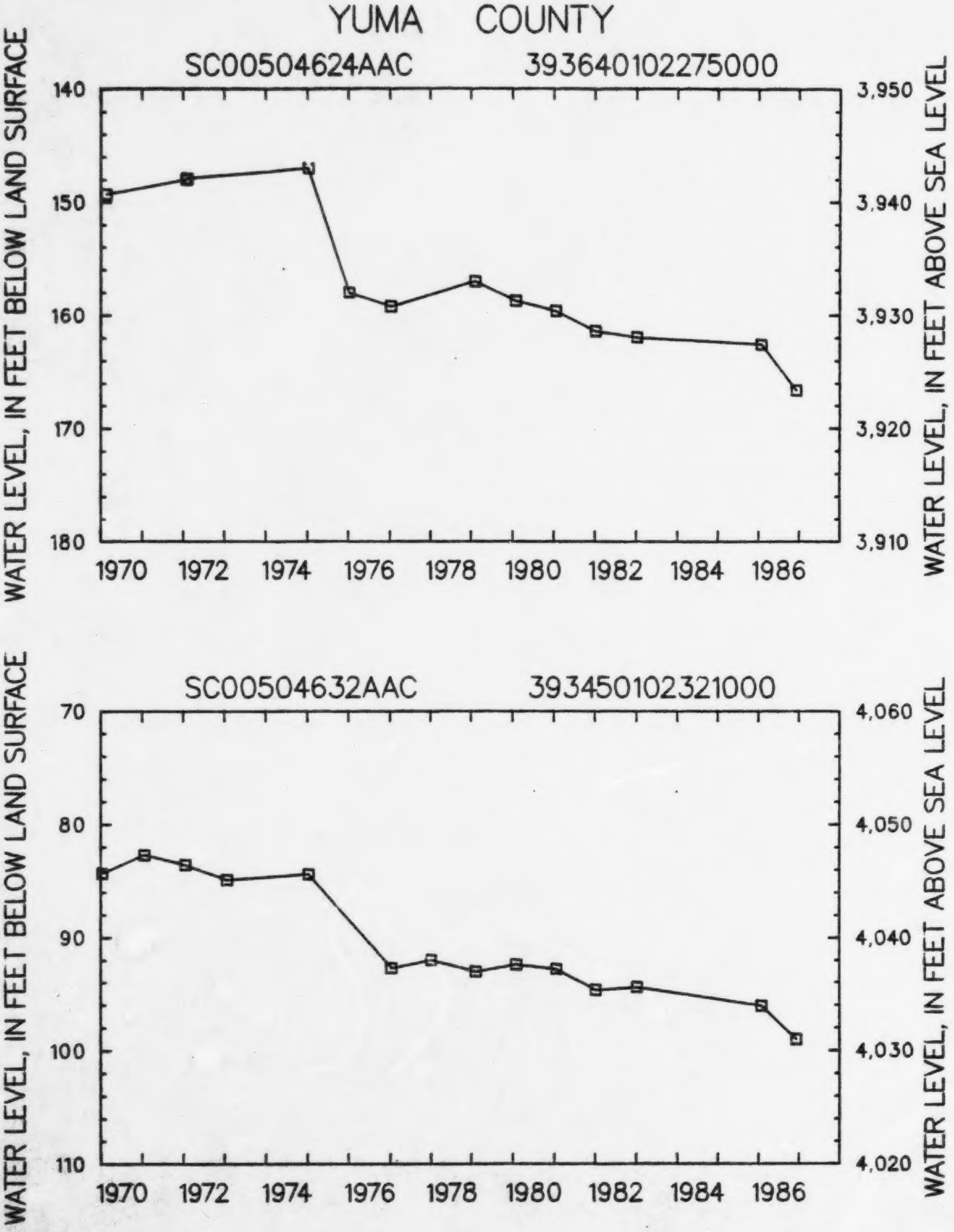
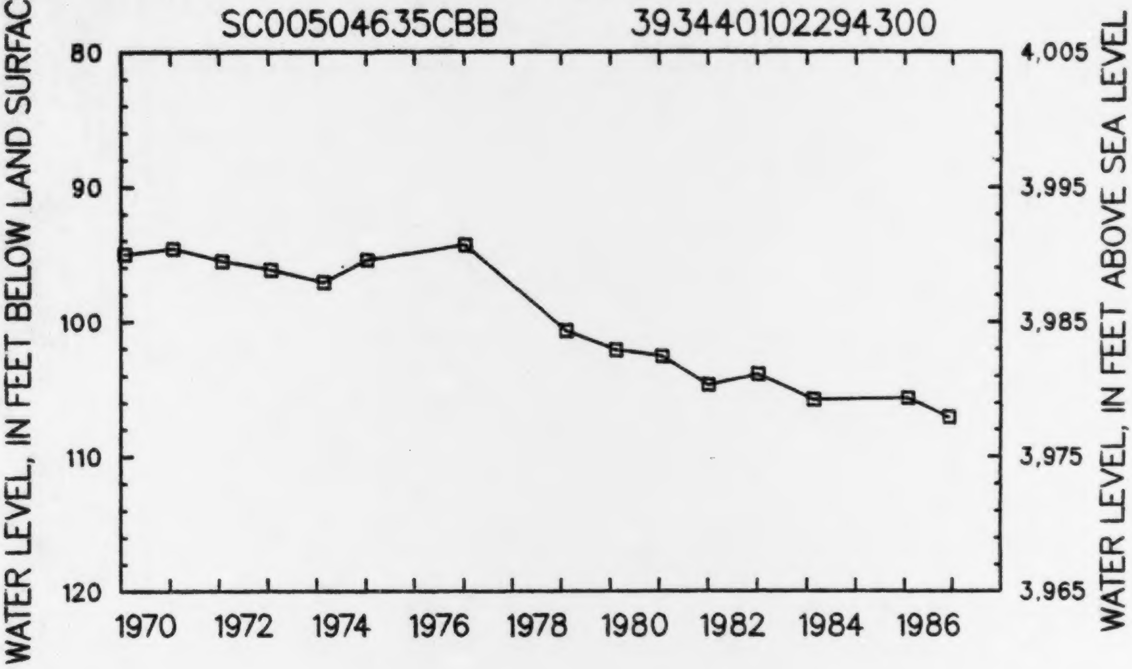


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.



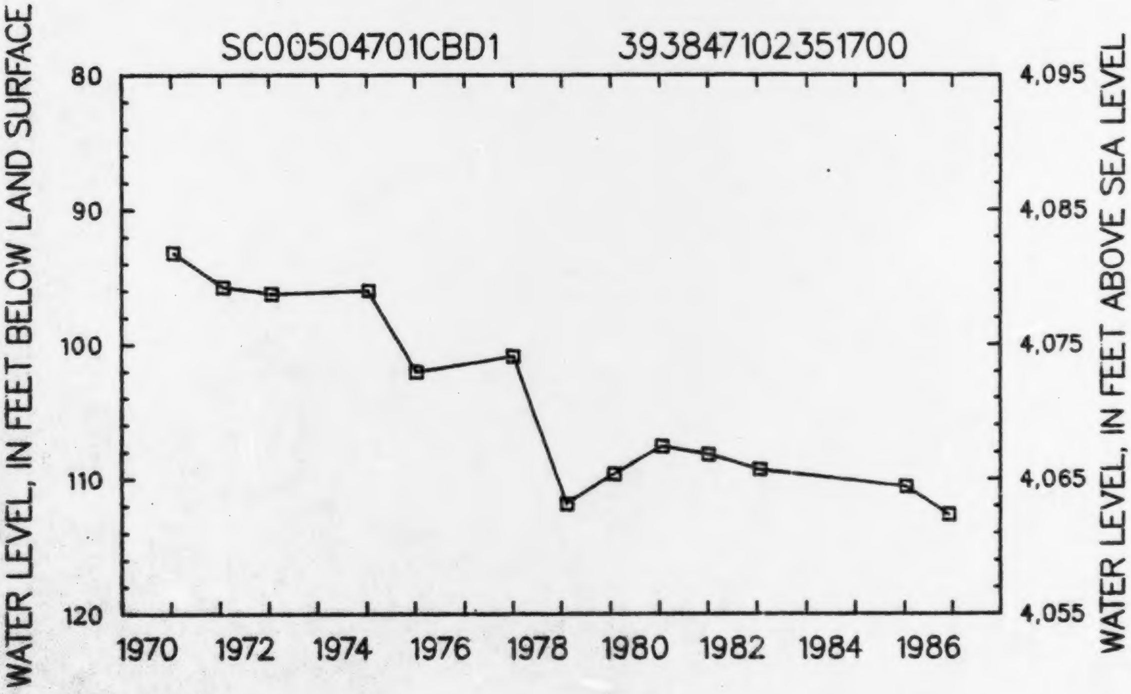


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

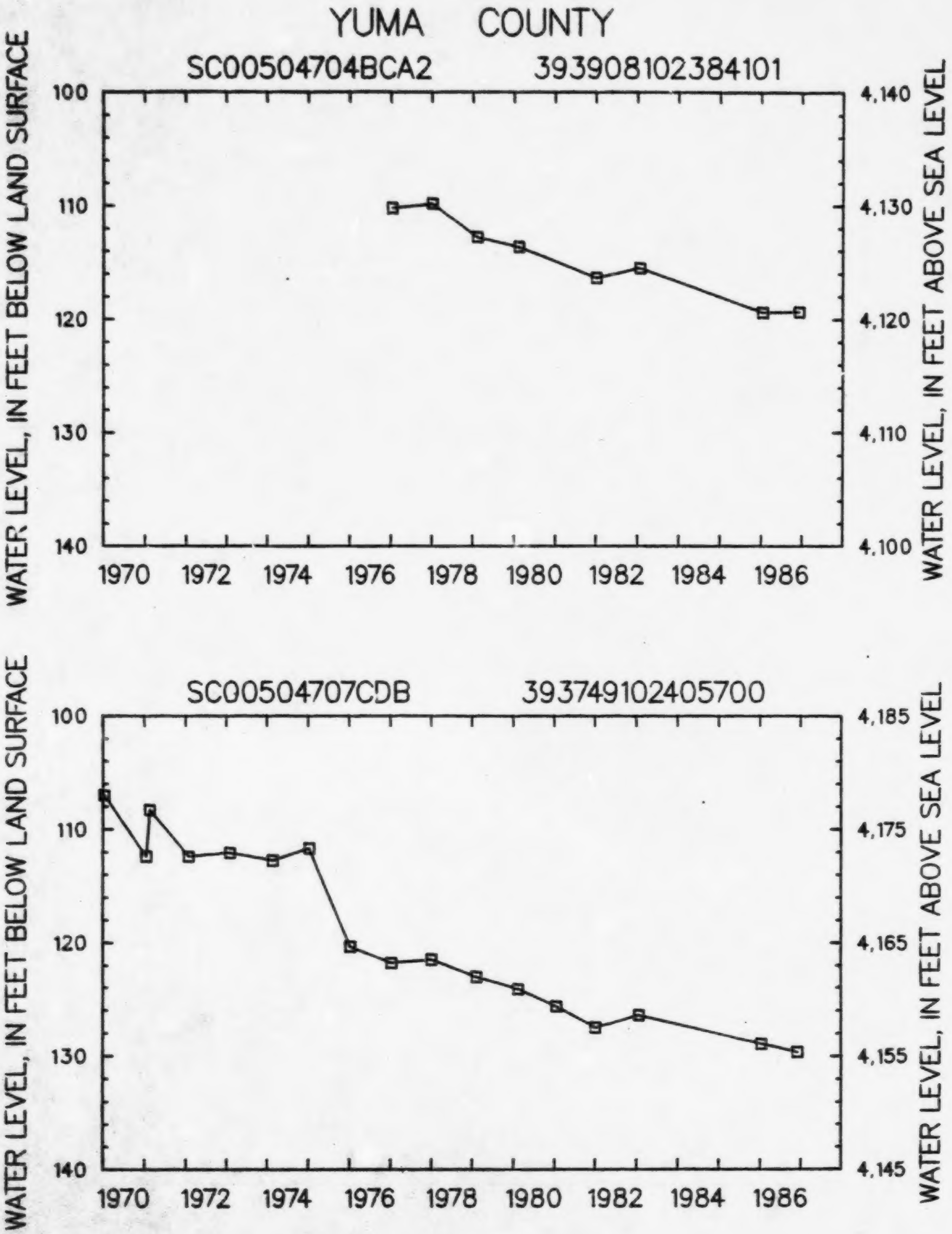


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

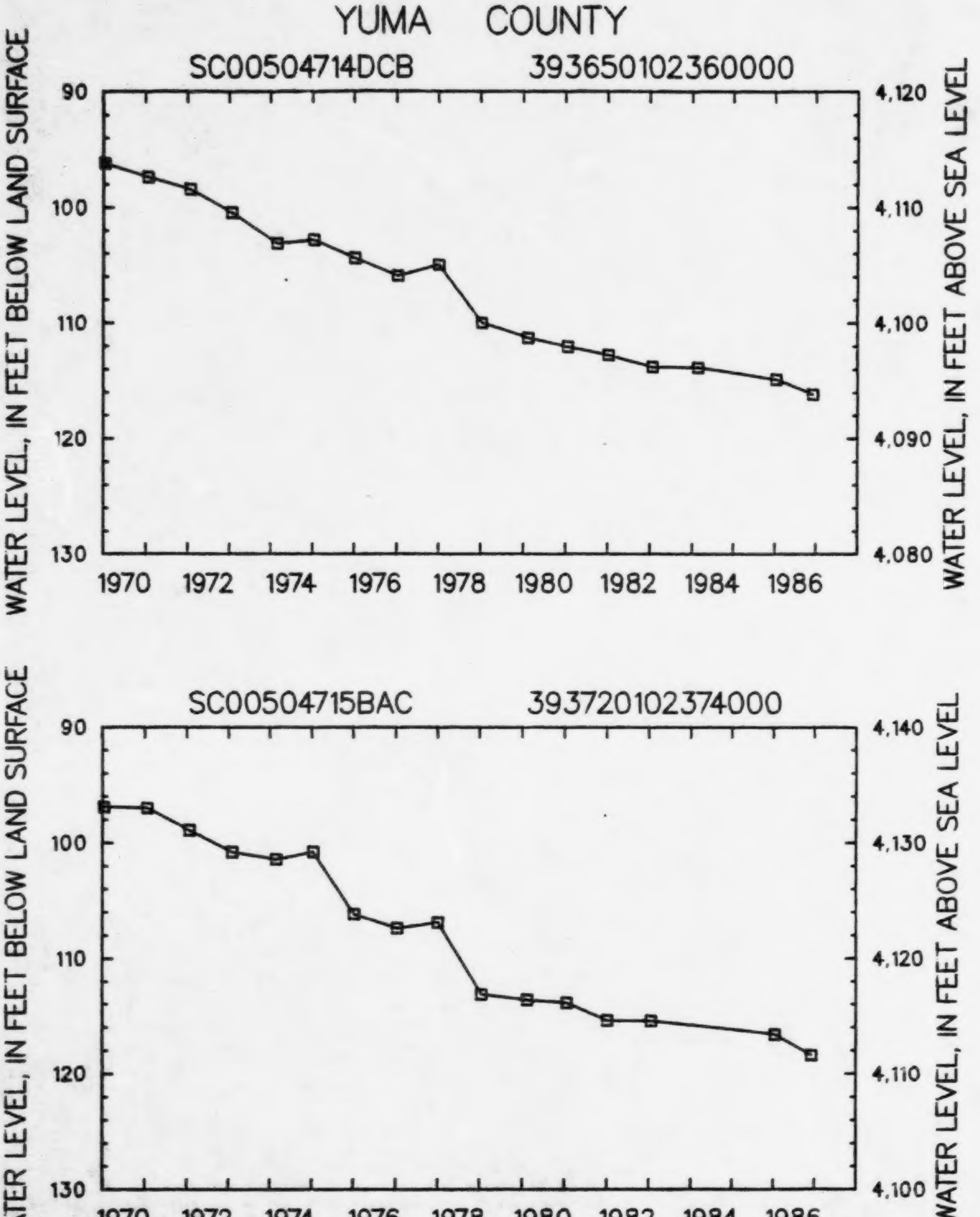


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

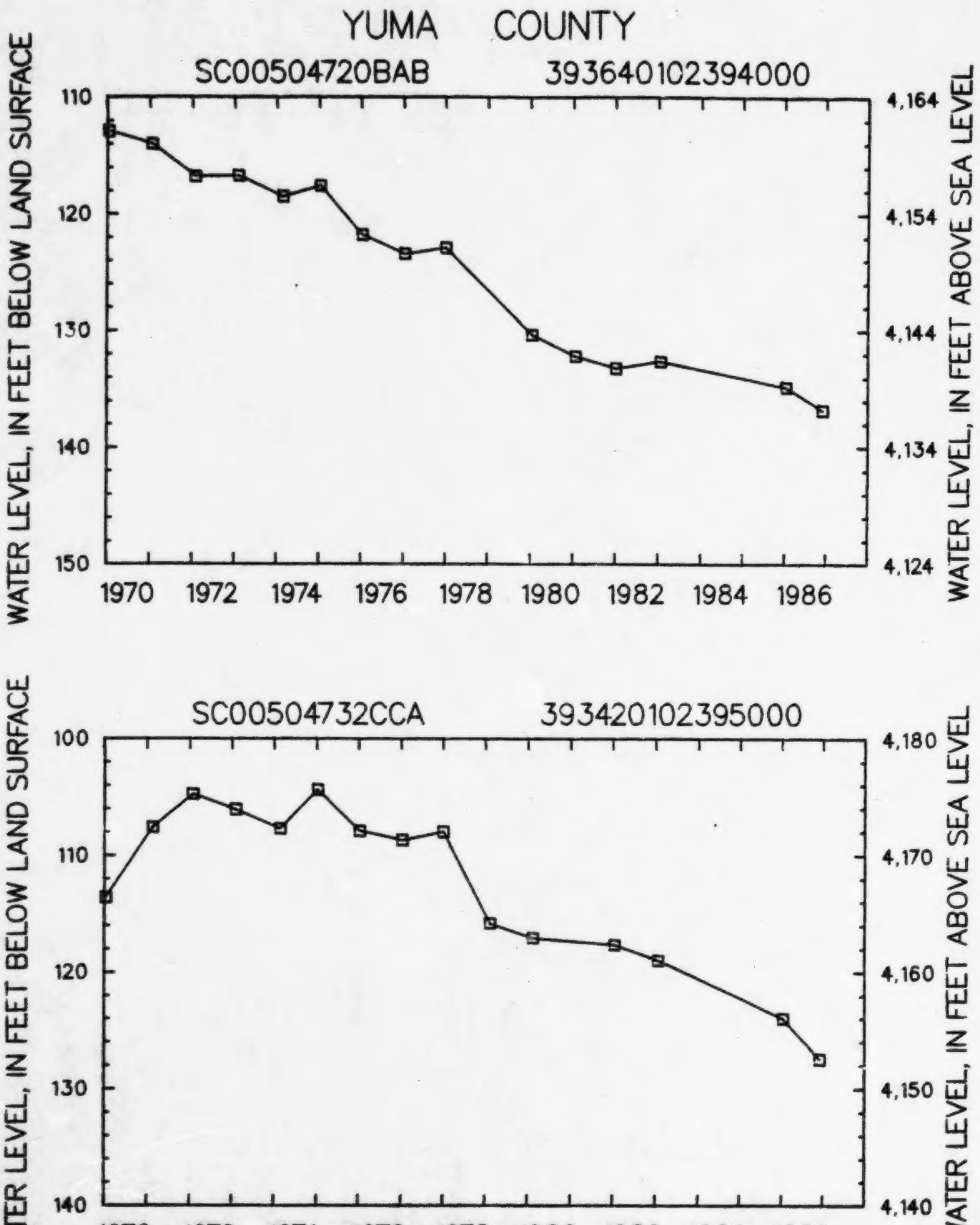


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

YUMA COUNTY

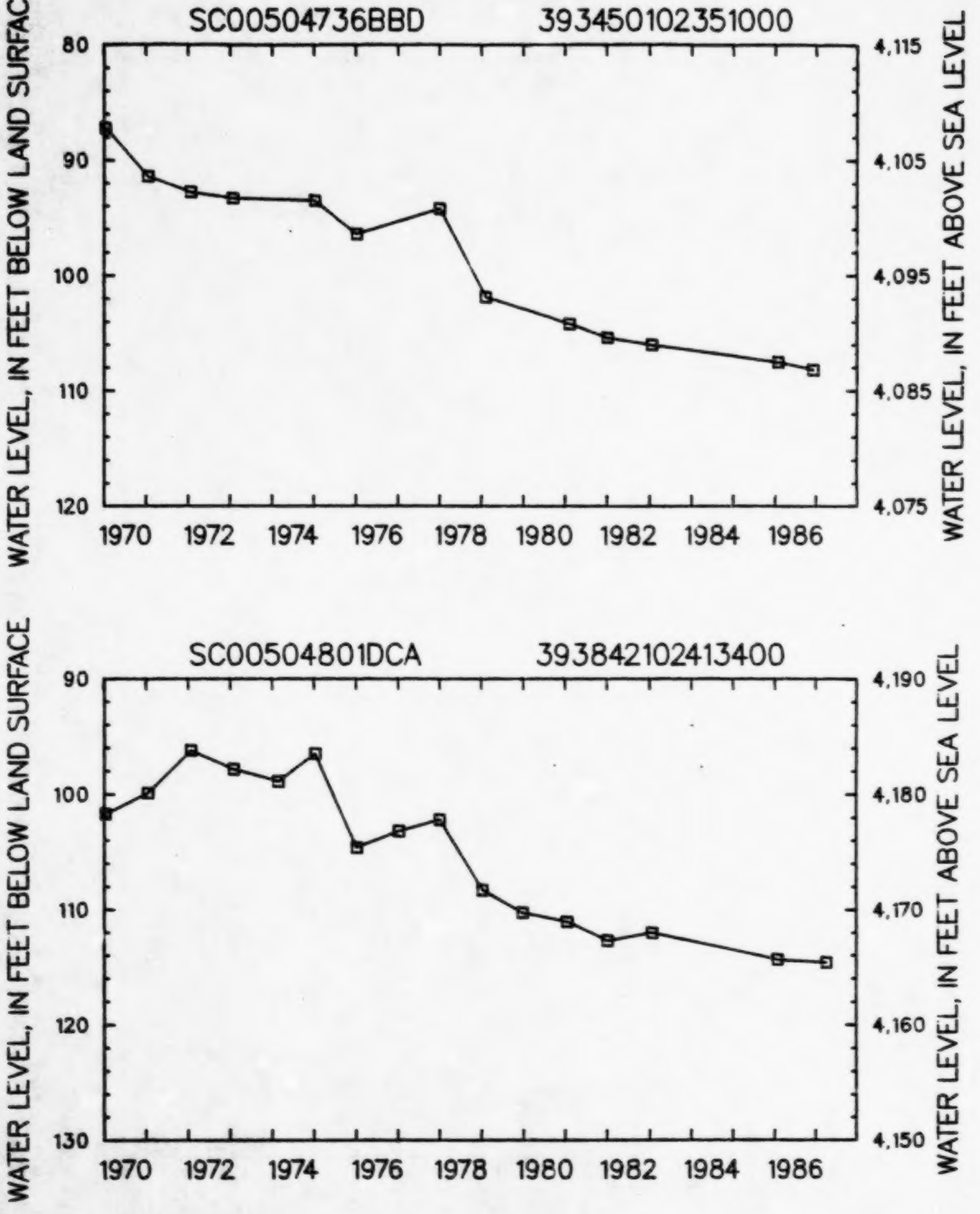


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

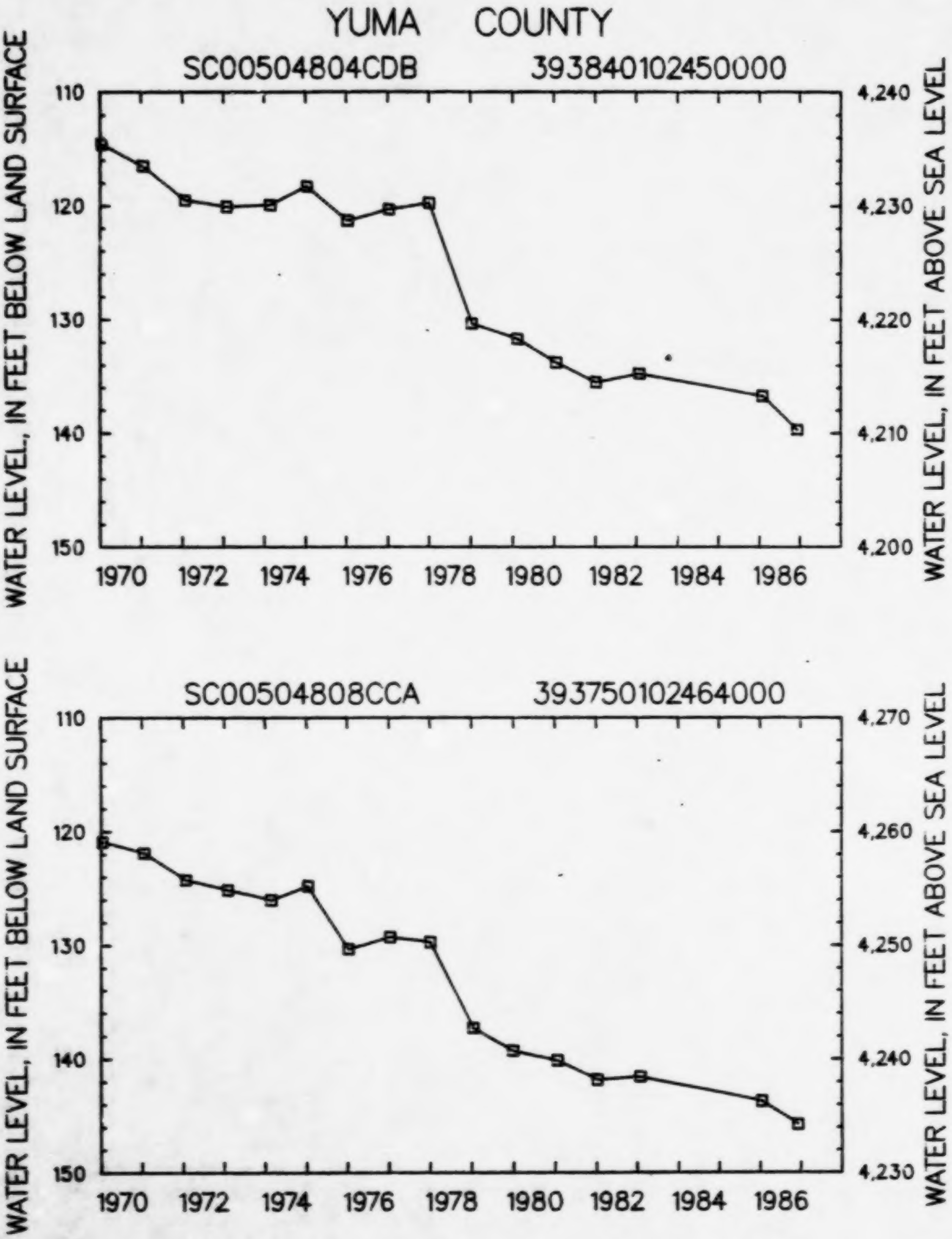


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

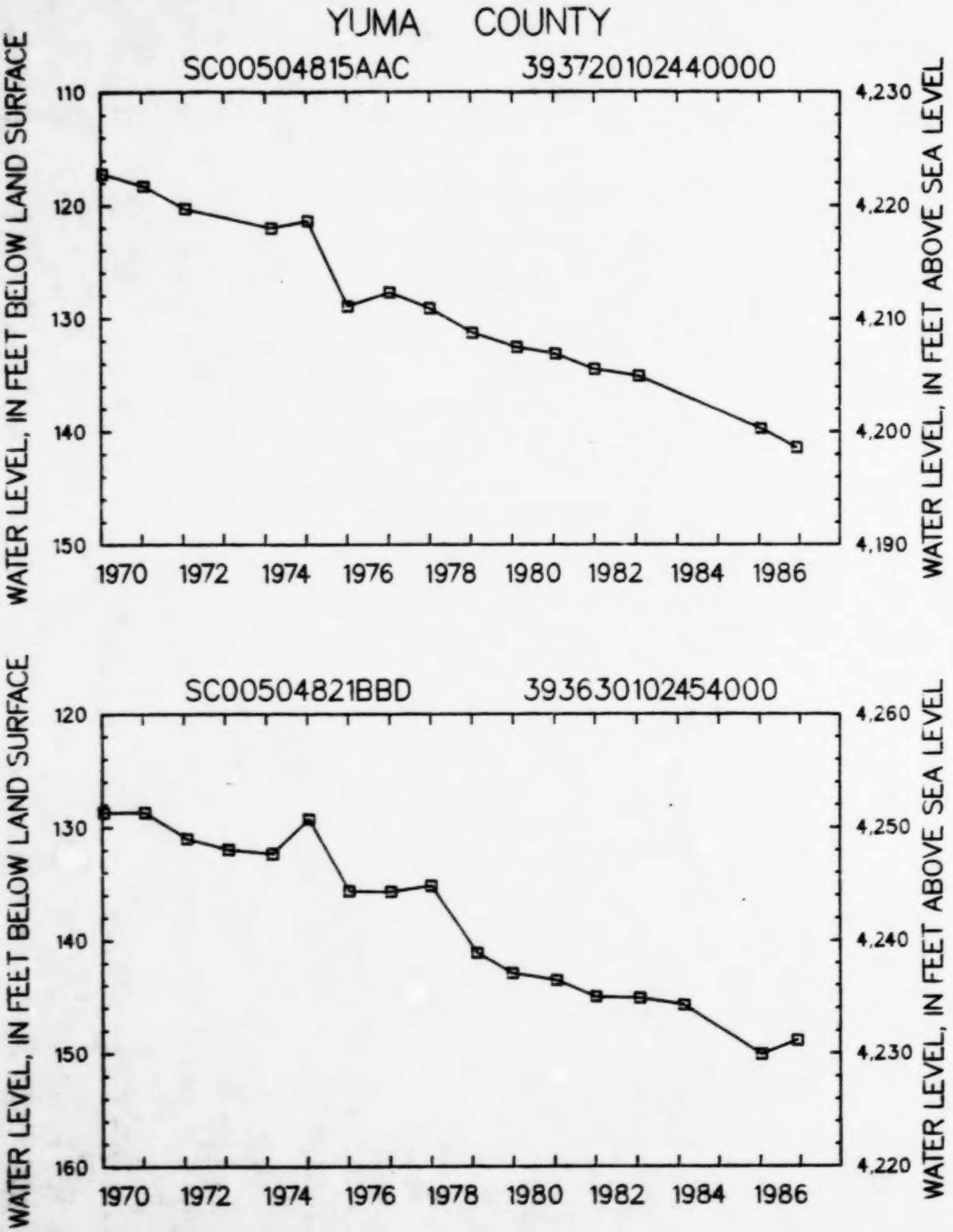


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

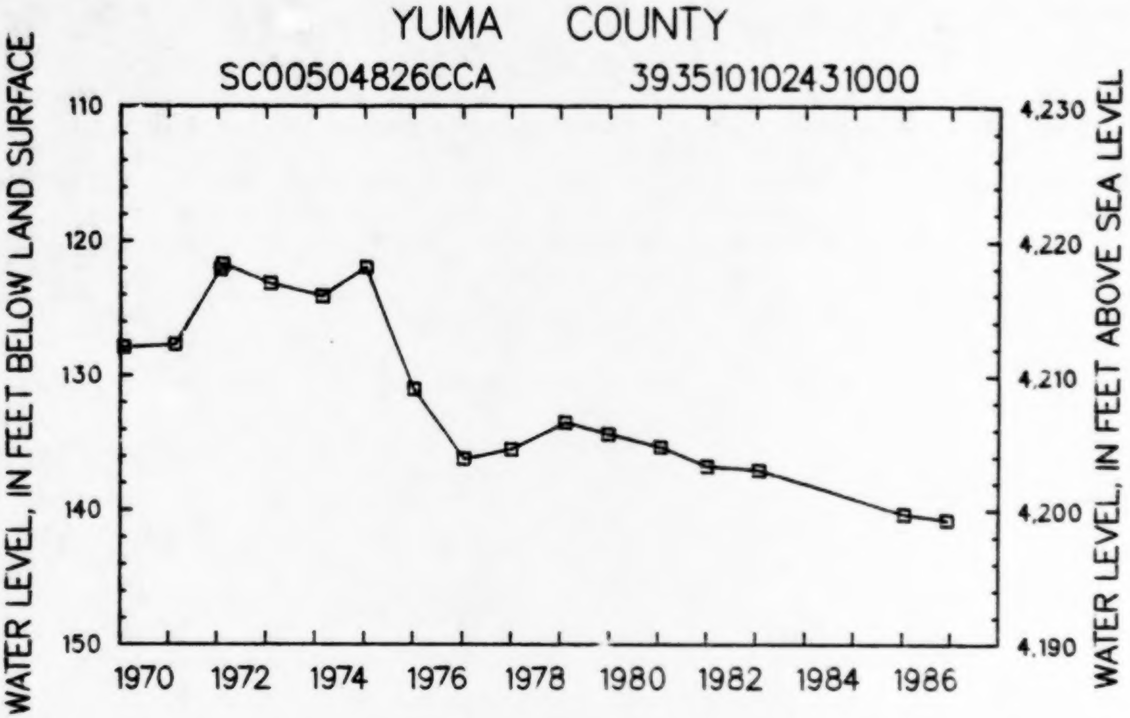


Figure 3.--Water levels for wells in the northern High Plains of Colorado (1970-87)--Continued.

Table 1.--*Water-level record (winter 1986-87)*

Local well number: See "System of Numbering Wells" section.

Geohydrologic unit: Geologic strata or aquifer in which the well was completed. The geohydrologic unit symbols are described by age and stratigraphic unit or aquifer as follows:

Age	Stratigraphic unit or aquifer	Symbol
Quaternary	Quaternary System	QUATERNARY
	Alluvium	ALLUVIUM
	Dune sand	DUNE
	Pleistocene Series	PLEISTOCENE
Tertiary	Ogallala Formation	OGALLALA
	White River Group	WHITE RIVER
	Chadron Formation of the White River Group	CHADRON
Cretaceous	Pierre Shale	PIERRE
	Niobrara Formation	NIOBRARA

Depth of well: Feet below land surface; ---, exact depth of well is unknown.

Altitude of land surface: Feet above National Geodetic Vertical Datum of 1929.

Water-level date: Month-day-year of measurement.

Water level: Feet below land surface, to nearest one hundredth of a foot; --, well was visited, but no water level was obtained.

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		CHEYENNE COUNTY			
SC01204310ADA	OGALLALA	178	4,175	12-05-86	120.98
SC01204314DCD	OGALLALA	130	4,121	12-05-86	125.74
SC01204416DCC1	OGALLALA	76	4,315		--
SC01204435ADD	OGALLALA	153	4,210	12-05-86	131.18
SC01204505DDD	OGALLALA	209	4,440	12-05-86	179.10
SC01204516CCC	OGALLALA	104	4,416	12-02-86	98.28
SC01204710AAA	OGALLALA	186	4,570	12-02-86	132.22
SC01204810ABD	OGALLALA	214	4,718	12-06-86	150.39
SC01304209AAB	OGALLALA	169	3,910	12-05-86	117.49
SC01304217CCC	OGALLALA	248	4,002	12-04-86	228.65
SC01304223CDC	OGALLALA	266	3,890	12-04-86	140.48
SC01304224DDA	OGALLALA	275	3,885	12-04-86	153.63
SC01304308BBB	OGALLALA	139	4,190	12-05-86	132.32
SC01304421BCA	OGALLALA	131	4,227	12-02-86	37.15
SC01304502DDA	OGALLALA, PIERRE	230	4,380	12-02-86	184.29
SC01304525CCC	OGALLALA	305	4,360	12-03-86	204.98
SC01304602CCB	OGALLALA, PIERRE	148	4,500	12-02-86	100.32
SC01304614DCC	OGALLALA, PIERRE	222	4,530	12-02-86	155.29
SC01404106DBA	OGALLALA, PIERRE	393	3,897	12-04-86	194.89
SC01404118ABD	OGALLALA	356	3,895	12-04-86	211.69
SC01404130ABB	OGALLALA	272	3,885	12-04-86	194.50
SC01404131ACC	OGALLALA	397	3,885	12-04-86	189.97
SC01404228DAD	OGALLALA	398	3,960	12-04-86	246.20
SC01404418DDB	OGALLALA, PIERRE	310	4,257	12-03-86	192.38
SC01404428DDB	OGALLALA, PIERRE	427	4,220	12-03-86	234.28
				04-10-87	232.95
SC01404430BAB	OGALLALA, PIERRE	398	4,300	04-10-87	322.25
SC01404505ADD	OGALLALA, PIERRE	170	4,350	12-03-86	113.62
SC01404506DCC	OGALLALA, PIERRE	140	4,420	12-03-86	95.29
SC01504203BBD	OGALLALA, PIERRE	420	3,945	12-04-86	214.76
SC01504208BDA	OGALLALA, PIERRE	410	3,970	12-04-86	168.64

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
CHEYENNE COUNTY--Continued					
SC01504223BCC	OGALLALA	220	3,977	12-04-86	208.34
SC01504301AAA	OGALLALA	272	4,021	12-04-86	192.75
SC01504302BBD	OGALLALA, PIERRE	315	4,070	12-04-86	231.19
SC01504504BAB1	OGALLALA	365	4,390	12-03-86	253.89
SC01604208BBB	OGALLALA, PIERRE	266	4,065	12-04-86	244.03
SC01604408ACC	OGALLALA	245	4,310	12-03-86	234.37
KIOWA COUNTY					
SC01704131CCC	OGALLALA	56	3,935	12-04-86	50.23
SC01904208BAB1	OGALLALA	78	3,955	12-04-86	25.23
SC01904211BAB	OGALLALA	85	3,905	12-04-86	39.35
SC01904320AAA	OGALLALA	64	4,064	12-03-86	49.24
SC01904414AAD	OGALLALA, NIOBRARA	83	4,115	12-03-86	47.98
SC02004106CBB	OGALLALA	54	3,841	12-04-86	48.44
SC02004229AAD	OGALLALA, NIOBRARA	240	3,855	12-04-86	142.48
SC02004235CAA	OGALLALA, NIOBRARA	223	3,785	12-04-86	150.41
SC02004302DCD	OGALLALA	220	3,974	12-03-86	140.42
SC02004334DDD	OGALLALA	238	3,885	12-03-86	188.69
				04-09-87	187.02
SC02004414BAA	OGALLALA	192	4,005	12-03-86	126.70
SC02004436BBD	OGALLALA, NIOBRARA	200	3,885	12-03-86	149.39
KIT CARSON COUNTY					
SC5.504233DAC	OGALLALA, PIERRE	223	3,780	12-20-86	138.34
SC5.504433DDB	OGALLALA, PIERRE	183	3,896	02-11-87	119.15
SC5.504436DAB	OGALLALA	125	3,760	12-20-86	34.21
SC5.504536DCB	OGALLALA, PIERRE	90	3,830	02-11-87	17.42
SC00604216DCB	OGALLALA, PIERRE	313	3,898	12-20-86	207.72
SC00604220ACD	OGALLALA, PIERRE	306	3,910	12-20-86	201.45
SC00604223BDD	OGALLALA, PIERRE	280	3,845	12-20-86	170.42
SC00604227DCB	OGALLALA, PIERRE	312	3,900	04-09-87	197.33
SC00604228BBC	OGALLALA, PIERRE	310	3,910	12-20-86	198.26
SC00604231DBC	OGALLALA, PIERRE	313	3,950	12-20-86	192.72

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
KIT CARSON COUNTY-Continued					
SC00604233CCC	OGALLALA, PIERRE	321	3,935	12-20-86	199.86
SC00604235CAB	OGALLALA, PIERRE	325	3,895	12-20-86	197.89
SC00604320CBB	OGALLALA, PIERRE	305	3,995	02-21-87	199.90
SC00604431DCB	OGALLALA	113	4,004	02-01-87	104.33
SC00604435BCA	OGALLALA	312	4,050	02-01-87	203.19
SC00604503CCC	OGALLALA, PIERRE	110	3,905	02-11-87	15.18
SC00604512CDC	OGALLALA, PIERRE	268	4,036	02-11-87	171.33
SC00604515CAC	OGALLALA, PIERRE	205	4,030	02-11-87	127.17
SC00604518AAC	OGALLALA, PIERRE	85	3,950	02-09-87	13.03
SC00604603ABD	OGALLALA, PIERRE	240	4,160	02-09-87	143.69
SC00604703ACA	OGALLALA, PIERRE	226	4,265	02-09-87	130.57
SC00604713ACC	OGALLALA, PIERRE	190	4,200	02-09-87	92.47
SC00604809DAC	OGALLALA, PIERRE	211	4,400	02-09-87	152.00
SC00605001CAA	OGALLALA, PIERRE	300	4,645	01-24-87	224.62
SC00605008ACA	OGALLALA, PIERRE	268	4,735	01-24-87	216.68
SC00605009DBD	OGALLALA, PIERRE	270	4,705	01-24-87	205.68
SC00605011BBB	OGALLALA, PIERRE	295	4,675	01-24-87	221.59
SC00605027BAC	OGALLALA, PIERRE	240	4,700	02-09-87	191.33
SC00605031BAA	OGALLALA, PIERRE	201	4,765	02-09-87	160.28
SC00605102BBD	OGALLALA, PIERRE	150	4,785	01-24-87	119.98
SC00605103CDD	OGALLALA, PIERRE	135	4,785	01-24-87	109.35
SC00605119BBD	OGALLALA, PIERRE	100	4,840	01-24-87	70.35
SC00605120DBB	OGALLALA, PIERRE	155	4,850	01-24-87	120.53
SC00704209DAC	OGALLALA, PIERRE	310	3,930	12-20-86	191.33
SC00704222CBB	OGALLALA, PIERRE	290	3,930	12-20-86	178.75
				04-09-87	176.27
SC00704223DDD	OGALLALA, PIERRE	309	3,920	12-20-86	193.23
SC00704234BCB	OGALLALA, PIERRE	322	3,965	12-20-86	200.37
SC00704235ABC	OGALLALA, PIERRE	300	3,935	12-20-86	186.94
SC00704304ABB	OGALLALA, PIERRE	310	4,005	02-21-87	204.59
SC00704309CBB	OGALLALA, PIERRE	295	4,015	02-21-87	191.04
SC00704310BAA	OGALLALA, PIERRE	275	3,970	02-21-87	158.69
SC00704314ABC2	OGALLALA	---	4,000	02-21-87	210.42
				04-09-87	195.42
SC00704320BBB	OGALLALA, PIERRE	283	4,035	02-21-87	186.94
SC00704323ACA	OGALLALA	307	4,000	02-21-87	177.14
SC00704334BCB	OGALLALA, PIERRE	320	4,040	02-21-87	180.05

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
KIT CARSON COUNTY--Continued					
SC00704407BBB	OGALLALA	305	4,105	02-11-87	185.16
SC00704412BDB	OGALLALA, PIERRE	293	4,050	02-11-87	195.25
SC00704423CBB	OGALLALA, PIERRE	253	4,075	02-11-87	157.54
SC00704425BCD	OGALLALA	210	4,025	02-11-87	130.42
SC00704429ABB	OGALLALA, PIERRE	246	4,110	02-11-87	153.67
SC00704434DBC	OGALLALA, PIERRE	245	4,095	02-11-87	155.64
SC00704501BDB	OGALLALA, PIERRE	285	4,095	02-11-87	166.30
SC00704505ABB	OGALLALA, PIERRE	305	4,175	02-09-87	202.08
SC00704515BAC	OGALLALA, PIERRE	348	4,195	02-11-87	219.62
SC00704518BCD	OGALLALA, PIERRE	335	4,250	02-09-87	234.32
SC00704523CBB	OGALLALA, PIERRE	274	4,150	02-11-87	167.50
SC00704528CCC	OGALLALA, PIERRE	300	4,220	02-09-87	203.64
SC00704529ACB	OGALLALA, PIERRE	308	4,230	02-09-87	216.38
SC00704635BBB	OGALLALA	300	4,270	02-09-87	218.99
SC00704722AAC	OGALLALA, PIERRE	155	4,255	02-09-87	116.49
SC00704726CAA	OGALLALA, PIERRE	234	4,310	02-09-87	190.88
SC00704822DAD	OGALLALA	259	4,495	02-09-87	254.08
SC00705115BBD	OGALLALA, PIERRE	184	4,885	02-09-87	144.30
SC00804204CDA	OGALLALA, PIERRE	335	3,985	02-23-87	208.88
SC00804206ABB	OGALLALA, PIERRE	313	4,000	12-20-86	201.14
SC00804211DCB	OGALLALA, PIERRE	330	3,950	02-23-87	197.28
SC00804214DDA	OGALLALA	260	3,925	02-23-87	161.60
SC00804219BBC	OGALLALA, PIERRE	326	4,030	02-23-87	186.17
SC00804220CAB	OGALLALA, PIERRE	250	3,990	02-23-87	158.70
SC00804222BBB	OGALLALA, PIERRE	302	3,970	02-23-87	172.21
SC00804223DAB2	OGALLALA, PIERRE	250	3,930	02-23-87	142.85
SC00804232ABB	OGALLALA, PIERRE	211	3,950	02-22-87	97.15
SC00804301ACD	OGALLALA	335	4,025	12-20-86	204.44
SC00804305BDC	OGALLALA, PIERRE	320	4,085	02-21-87	203.48
SC00804315CCC	OGALLALA, PIERRE	305	4,070	02-23-87	186.80
SC00804318ACC	OGALLALA, PIERRE	300	4,100	02-21-87	191.20
SC00804322BCB	OGALLALA, PIERRE	334	4,090	02-23-87	203.92
SC00804322CDA	OGALLALA, PIERRE	335	4,085	02-23-87	204.30
SC00804330ABC	OGALLALA, PIERRE	346	4,145	02-21-87	227.70
SC00804332CCC	OGALLALA	321	4,130	02-22-87	206.53

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
			KIT CARSON COUNTY--Continued		
SC00804334DBB	OGALLALA, PIERRE	290	4,055	02-22-87	162.19
SC00804336BCA	OGALLALA, PIERRE	305	4,025	02-22-87	149.70
SC00804402ABD1	OGALLALA, PIERRE	244	4,085	02-11-87	163.69
SC00804406AAC	OGALLALA, PIERRE	275	4,140	02-11-87	159.05
				04-08-87	158.55
SC00804414ADC	OGALLALA	257	4,095	02-11-87	161.78
SC00804416BCA	OGALLALA, PIERRE	290	4,165	04-08-87	184.95
SC00804419DAD	OGALLALA, PIERRE	283	4,210	02-12-87	202.74
SC00804422BBD	OGALLALA, PIERRE	329	4,185	02-11-87	211.35
SC00804426CCB	OGALLALA, PIERRE	326	4,170	02-12-87	201.80
SC00804503BDC	OGALLALA, PIERRE	256	4,190	02-11-87	172.94
SC00804514DAD	OGALLALA, PIERRE	252	4,210	02-11-87	183.19
SC00804530AAA	OGALLALA, PIERRE	231	4,245	02-10-87	160.13
SC00804532BCC	OGALLALA, PIERRE	215	4,245	02-10-87	141.56
SC00804533BAD	OGALLALA, PIERRE	76	4,150	02-10-87	69.02
SC00804534DBB	OGALLALA	235	4,245	02-10-87	183.64
SC00804601BCC	OGALLALA, PIERRE	305	4,280	02-09-87	231.39
SC00804629DCD	OGALLALA, PIERRE	263	4,370	02-10-87	208.49
SC00804706DDD	OGALLALA	212	4,425	02-09-87	206.28
SC00804711ADA	OGALLALA	134	4,265	02-10-87	125.22
SC00804726CCC	OGALLALA, PIERRE	115	4,320	02-10-87	78.85
SC00804917CCB	ALLUVIUM, PLEISTOCENE	18	4,565	02-09-87	10.60
SC00805110ABB2	ALLUVIUM, PLEISTOCENE	74	4,875	02-09-87	36.72
SC00904203CDB	OGALLALA, PIERRE	228	3,955	02-22-87	105.53
SC00904214BBB	OGALLALA, PIERRE	277	3,985	02-22-87	143.30
SC00904219DBC	OGALLALA, PIERRE	320	4,085	02-22-87	195.61
SC00904222ACD	OGALLALA, PIERRE	312	4,010	02-22-87	157.65
SC00904226AAC	OGALLALA, PIERRE	303	3,995	02-22-87	149.95
SC00904231CCC	OGALLALA, PIERRE	337	4,105	02-22-87	202.70
SC00904301CDB	OGALLALA, PIERRE	220	4,000	02-22-87	99.80
SC00904313DBD	OGALLALA, PIERRE	285	4,070	02-22-87	166.23
SC00904314CCC	OGALLALA, PIERRE	335	4,120	02-22-87	193.57
SC00904322BCB	OGALLALA, PIERRE	340	4,145	02-22-87	217.04
SC00904327BAA	OGALLALA, PIERRE	290	4,115	02-22-87	185.03
				04-08-87	183.90
SC00904328ABB	OGALLALA	337	4,160	02-22-87	224.98
SC00904332BBB2	OGALLALA, PIERRE	331	4,185	02-22-87	213.60

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
KIT CARSON COUNTY--Continued					
SC00904401CBB	OGALLALA, PIERRE	315	4,160	02-12-87	190.07
SC00904403BDD	OGALLALA, PIERRE	346	4,205	02-12-87	213.32
SC00904411ACC	OGALLALA, PIERRE	287	4,155	02-12-87	165.65
SC00904429BCC	OGALLALA, PIERRE	266	4,210	02-12-87	148.62
SC00904432BCB	OGALLALA	265	4,215	02-12-87	146.35
SC00904501DAD	OGALLALA, PIERRE	305	4,260	02-10-87	211.29
SC00904512BCD	OGALLALA, PIERRE	283	4,250	02-10-87	186.63
SC00904514BDA	OGALLALA, PIERRE	288	4,285	02-10-87	206.47
SC00904518BCB	OGALLALA, PIERRE	228	4,280	02-10-87	130.44
SC00904521CDC	OGALLALA, PIERRE	300	4,330	02-10-87	208.99
SC00904522DDC	OGALLALA	320	4,310	02-10-87	209.60
SC00904529DBC	OGALLALA, PIERRE	278	4,345	02-10-87	205.06
SC00904533ACD	OGALLALA	290	4,325	02-10-87	197.05
SC00904610DCD	OGALLALA, PIERRE	255	4,345	02-10-87	167.82
SC00904618DAA1	OGALLALA, PIERRE	245	4,405	02-10-87	175.22
SC00904626CBA1	OGALLALA, PIERRE	223	4,345	02-10-87	144.13
SC00905035BCC1	OGALLALA, PIERRE	78	4,785	02-09-87	63.87
SC01004203CBD	OGALLALA, PIERRE	288	4,030	02-22-87	149.72
SC01004212DCD	OGALLALA, PIERRE	273	4,000	02-22-87	134.99
SC01004221BCA	OGALLALA	238	4,030	02-22-87	126.14
SC01004223BBB	OGALLALA, PIERRE	270	3,995	02-22-87	110.70
SC01004226CCA	OGALLALA	---	3,985		--
SC01004233BBB	OGALLALA	150	4,010	02-22-87	93.50
SC01004235AAA	OGALLALA, PIERRE	142	3,960	02-22-87	65.04
SC01004309BAC	OGALLALA, PIERRE	335	4,175	02-22-87	213.05
SC01004311ABB	OGALLALA	322	4,120	02-22-87	195.86
SC01004313DDD	OGALLALA, PIERRE	320	4,110	02-22-87	187.64
SC01004317CBB	OGALLALA, PIERRE	327	4,185	02-22-87	194.38
SC01004324DCC	OGALLALA, PIERRE	224	4,070		--
SC01004332ABB	OGALLALA, PIERRE	280	4,180	02-22-87	162.47
SC01004335BBB	OGALLALA, PIERRE	247	4,098	02-22-87	133.35
SC01004410ACB	OGALLALA, PIERRE	275	4,220	02-12-87	177.32
SC01004411BDA2	OGALLALA	288	4,235	02-12-87	201.59
SC01004423CBC	OGALLALA, PIERRE	296	4,225	02-12-87	176.47
SC01004426CDD	OGALLALA, PIERRE	296	4,230	02-12-87	175.23

Table 1.--*Water-level record (winter 1986-87)*--Continued

KIT CARSON COUNTY--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
SC01004429BBB	OGALLALA, PIERRE	330	4,320	02-12-87	229.71
SC01004433CDC	OGALLALA, PIERRE	315	4,295	02-12-87	206.05
SC01004508ABC	OGALLALA, PIERRE	294	4,365	02-10-87	195.90
SC01004521BBB	OGALLALA, PIERRE	250	4,320	02-10-87	138.58
SC01004613BCD	OGALLALA, PIERRE	294	4,420	02-10-87	202.18
SC01004713CCD	OGALLALA, PIERRE	252	4,520	04-08-87	179.56
SC01004717CCC	OGALLALA	227	4,605	02-10-87	180.92
SC01004923DCC	OGALLALA, PIERRE	200	4,785	02-08-87	174.88
SC01104204CBA	OGALLALA	174	4,050	02-22-87	108.77
SC01104208BBC	OGALLALA, PIERRE	177	4,065	02-22-87	105.52
SC01104213BCB	OGALLALA	178	3,990	02-22-87	91.97
SC01104217CCC	OGALLALA	142	4,065	02-22-87	91.06
SC01104227BAB	OGALLALA, PIERRE	200	4,075	12-21-86	156.29
SC01104304BCB	OGALLALA, PIERRE	225	4,145	02-22-87	115.21
SC01104308CAC	OGALLALA, PIERRE	198	4,145	02-22-87	101.82
SC01104312BCB	OGALLALA, PIERRE	199	4,080	02-22-87	90.38
SC01104316BBC	OGALLALA, PIERRE	215	4 140	02-22-87	103.80
SC01104319CBB	OGALLALA	97	4,155	02-22-87	82.42
SC01104322BCA	OGALLALA, PIERRE	205	4,140	02-22-87	127.94
SC01104323BCB	OGALLALA, PIERRE	195	4,130	02-22-87	120.46
SC01104324BBB	OGALLALA, PIERRE	275	4,115	02-22-87	117.97
SC01104329ABB	OGALLALA	136	4,190	02-22-87	123.30
SC01104331DDD	OGALLALA	202	4,245	02-22-87	165.43
SC01104402DCD	OGALLALA, PIERRE	254	4,215	02-12-87	141.19
SC01104415BAB	OGALLALA	215	4,220	02-12-87	120.92
SC01104416BBD	OGALLALA, PIERRE	206	4,230	02-12-87	109.85
SC01104418DCA	OGALLALA, PIERRE	222	4,280	02-12-87	125.62
SC01104508BAB	OGALLALA, PIERRE	260	4,435	02-12-87	185.07
SC01104522BBB	OGALLALA, PIERRE	221	4,350	02-12-87	126.98
SC01104526DCD	OGALLALA, PIERRE	190	4,315	02-12-87	112.40
SC01104527ABB	OGALLALA, PIERRE	200	4,320	02-12-87	104.12
SC01104613BAB1	OGALLALA, PIERRE	286	4,450	02-10-87	160.35
SC01104627BBB	OGALLALA, PIERRE	234	4,455	02-10-87	129.13
SC01104630CDD	OGALLALA, PIERRE	235	4,505	02-10-87	124.05
SC01104636BAC	OGALLALA, PIERRE	220	4,455	02-10-87	154.50

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
KIT CARSON COUNTY--Contuned					
SC01104701CCB	OGALLALA, PIERRE	265	4,585	02-10-87	192.35
SC01104713ACB	OGALLALA, PIERRE	304	4,590	02-10-87	214.53
SC01104717ABD	OGALLALA, PIERRE	244	4,645	02-10-87	170.29
SC01104922ABB2	OGALLALA	164	4,825	02-09-87	110.93
SC01104932ADD	OGALLALA	219	4,920	02-09-87	184.40
SC01105103BAA1	OGALLALA, PIERRE	63	5,085	02-09-87	48.38
LINCOLN COUNTY					
SC00605231CAA	OGALLALA	182	5,070	04-08-87	146.06
SC00605330DBD1	OGALLALA	--	5,180	12-06-86	155.15
SC00605530ADC1	OGALLALA	--	5,505	12-05-86	126.33
SC00605624CCB	OGALLALA	98	5,515	12-05-86	94.92
SC00705227BAC1	OGALLALA	260	5,050	12-06-86	168.14
SC00705320CBD2	OGALLALA, PIERRE	170	5,220	12-06-86	132.34
SC00705415BAA1	OGALLALA, PIERRE	130	5,272	12-06-86	105.20
SC00705523ABB	OGALLALA	111	5,426	12-06-86	95.23
SC00705623DDD1	QUATERNARY, OGALLALA, PIERRE	114	5,610	12-05-86	76.77
SC00805207DAA	OGALLALA	82	5,128	12-06-86	70.60
SC00805224CCB1	OGALLALA, PIERRE	110	5,045	12-06-86	65.80
SC00805230DCA	OGALLALA	76	5,158	04-08-87	54.75
SC00805435AAD	OGALLALA	77	5,390	12-05-86	72.84
SC00805507DDA1	OGALLALA, PIERRE	102	5,610	12-05-86	70.98
SC00905214CCC	OGALLALA	75	5,150	12-05-86	65.85
SC00905413DDD1	OGALLALA, PIERRE	89	5,420	12-05-86	74.00
SC00905501DDC1	OGALLALA, PIERRE	80	5,570	12-05-86	59.80
SC01005302CCC1	OGALLALA, PIERRE	55	5,315	12-05-86	33.13
LOGAN COUNTY					
SB00604825ABB1	OGALLALA	186	4,095	12-31-86	158.04
SB00604831DAA1	OGALLALA	400	4,195	12-31-86	177.54
SB00605025AAC	OGALLALA	80	4,300	12-31-86	39.48
SB00605101DDC1	OGALLALA	150	4,490	12-30-86	128.68
SB00704807ADD	OGALLALA	161	4,175	12-31-86	139.28

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		LOGAN COUNTY--Continued			
SB00704917ADA	OGALLALA	194	4,305	12-31-86	164.86
SB00704931ABA	OGALLALA	147	4,300	12-31-86	70.02
SB00705020BBC	OGALLALA	---	4,430	12-30-86	108.71
SB00804803BCB	OGALLALA	156	4,113	01-22-87	130.50
SB00804901DCD	OGALLALA	159	4,213	01-22-87	132.83
SB00804903ACD	OGALLALA	166	4,260	01-22-87	109.99
SB00805026BAA1	OGALLALA	195	4,355	12-30-86	125.15
		PHILLIPS COUNTY			
SB00604207BAB	OGALLALA	260	3,595	03-03-87	72.18
SB00604231CCB	OGALLALA	345	3,590	03-03-87	52.57
SB00604232BBC	OGALLALA	260	3,575	03-03-87	49.60
SB00604309BBA	OGALLALA	345	3,650	01-13-87	91.05
SB00604319BCD	OGALLALA, PIERRE	356	3,690	02-15-87	104.78
SB00604404BBC	OGALLALA	276	3,745	03-03-87	146.09
SB00604408CBA	OGALLALA	256	3,749	03-03-87	143.13
SB00604423CAC	OGALLALA	223	3,700	02-15-87	100.14
SB00604425CBD	OGALLALA	260	3,695	02-15-87	97.52
SB00604517DAB	OGALLALA	276	3,820	02-14-87	187.56
SB00604529BBC	OGALLALA	285	3,840	02-14-87	192.45
SB00604603DDD1	OGALLALA	---	3,890	02-14-87	213.28
SB00604627DAA2	OGALLALA	320	3,885	02-14-87	216.59
SB00704230ABB	OGALLALA	285	3,584	02-08-87	74.73
SB00704232DBA	OGALLALA	261	3,555	02-08-87	59.43
SB00704301ABB	OGALLALA	241	3,610	01-13-87	101.19
SB00704307DBB	OGALLALA	266	3,680	01-13-87	119.55
SB00704313AAB	OGALLALA	290	3,620	01-13-87	111.55
SB00704320AAC	OGALLALA	274	3,650	01-13-87	98.36
SB00704327BBB	OGALLALA	215	3,635	01-13-87	85.70
SB00704332CCA	OGALLALA	323	3,660	01-13-87	103.30
SB00704332DCA	OGALLALA	266	3,650	01-13-87	87.99
SB00704335ABB2	OGALLALA	300	3,600	01-13-87	65.79
SB00704412CCD	OGALLALA	286	3,695	01-13-87	132.02
SB00704415DCC	OGALLALA	237	3,725	03-03-87	138.88

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		PHILLIPS COUNTY--Continued			
SB00704417CCA	OGALLALA	285	3,745	03-03-87	155.43
SB00704424BCA	OGALLALA	270	3,690	01-13-87	119.75
SB00704528ACD	OGALLALA	260	3,820	02-14-87	205.30
SB00704535CBD	OGALLALA	285	3,795	02-14-87	175.32
SB00704621AAA	OGALLALA	182	3,920	01-22-87	136.23
SB00704716BCB1	OGALLALA, PIERRE	201	4,055	01-22-87	161.82
SB00804230CDD	OGALLALA	206	3,605	01-13-87	113.83
SB00804231CBC	OGALLALA	245	3,605	01-13-87	102.40
SB00804304BBB	OGALLALA	315	3,685	01-13-87	172.29
SB00804335ACA	OGALLALA	243	3,620	01-13-87	107.31
SB00804425AAB	OGALLALA	260	3,705	01-13-87	152.69
SB00804436DDC	OGALLALA	234	3,710	01-13-87	135.86
SB00804504ABB	OGALLALA	265	3,850	12-30-86	162.38
SB00804605DAD1	OGALLALA	265	3,935	12-30-86	150.89
SB00804612BCA	OGALLALA, PIERRE	288	3,890	12-30-86	144.98
SB00804617AAC	OGALLALA	210	3,930	12-30-86	126.15
SB00804719BBD	OGALLALA	272	4,068	12-30-86	148.00
SB00804732BAD	OGALLALA	173	4,035	12-30-86	114.25
SB00804736CBB1	OGALLALA	---	4,020	12-30-86	117.90
SB00904232DDD	OGALLALA	171	3,590	01-13-87	118.69
SB00904325AAA	OGALLALA	199	3,610	01-13-87	149.04
SB00904527CCD	OGALLALA	210	3,844	12-17-86	193.75
SB00904622AAA	OGALLALA	206	3,910	12-17-86	186.63
SB00904629DAB	OGALLALA	317	3,955	12-17-86	189.38
SB00904721BDA1	OGALLALA	326	4,025	12-17-86	183.40
		PROWERS COUNTY			
SC02104106ADC	OGALLALA	155	3,755	12-04-86	110.22
SC02104202BBA	OGALLALA	184	3,775	12-04-86	137.80
SC02104206CCB	OGALLALA, NIOBRARA	172	3,825	12-06-86	122.41
SC02104224DDA1	OGALLALA, NIOBRARA	132	3,740	12-04-86	113.27
SC02104232ADC	OGALLALA, NIOBRARA	148	3,665	12-03-86	80.22
SC02104302AAB	OGALLALA	210	3,884	12-03-86	190.55
SC02104304DCD	OGALLALA	150	3,830	12-03-86	109.15
SC02104305DDC2	OGALLALA, NIOBRARA	150	3,835	12-03-86	100.62
SC02104311ADD	OGALLALA	136	3,840	12-03-86	129.11
				04-09-87	128.93
SC02104324BBB	OGALLALA, NIOBRARA	134	3,750	12-03-86	110.59
		---		04-09-87	110.46

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
	PROWERS COUNTY--Continued				
SC02204202BCA	OGALLALA	134	3,630	12-04-86	91.89
SC02204211BBB	OGALLALA	144	3,625	12-04-86	79.78
	SEDGWICK COUNTY				
SB00904316BAB	OGALLALA	225	3,668	12-09-86	205.55
SB00904411BBB	OGALLALA	295	3,725	12-09-86	199.13
SB00904518BDB1	OGALLALA	318	3,880	12-17-86	206.64
SB00904610CCA	OGALLALA	274	3,930	12-17-86	218.40
SB00904706BAA1	OGALLALA	350	4,095	04-07-87	251.02
SB00904711DDB1	OGALLALA	263	3,990	12-17-86	198.69
SB01004232DDD	OGALLALA	208	3,610	12-09-86	194.38
SB01004435CAD	OGALLALA	320	3,710	12-09-87	197.10
SB01004523DCD	OGALLALA	263	3,828	12-09-86	238.55
SB01004524CCC2	OGALLALA	---	3,825	12-09-86	245.34
SB01004617CAC1	OGALLALA	370	3,980	12-09-86	261.19
SB01004634CDD	OGALLALA	285	3,940	12-09-86	243.88
SB01104327ABD1	OGALLALA	409	3,710	12-09-86	293.45
SB01104333DAD	OGALLALA	282	3,680	12-09-86	247.83
	WASHINGTON COUNTY				
SB00104902BBB	OGALLALA, PIERRE	349	4,250	01-06-87	226.62
SB00104936BDB	OGALLALA	285	4,255	01-06-87	189.35
SB00105021BAA1	OGALLALA	255	4,405	01-06-87	227.89
SB00105208CBC1	ALLUVIUM	32	4,610	01-06-87	5.59
SB00105223DAA1	OGALLALA	140	4,590	01-06-87	100.78
SB00204908DAA	OGALLALA, PIERRE	360	4,250	01-07-87	252.64
SB00204913DCA1	OGALLALA	353	4,185	01-06-87	205.65
SB00204920BAB1	OGALLALA	318	4,274	01-06-87	255.35
SB00205005BCB1	OGALLALA	---	4,375	01-07-87	144.27
SB00205015ADD	OGALLALA, PIERRE	297	4,325	01-06-87	231.29
SB00205024DAD1	OGALLALA	313	4,310	01-06-87	253.80
SB00205101CCA	OGALLALA	157	4,420	01-07-87	99.89
SB00205127AAC	OGALLALA	310	4,490	01-06-87	197.56
SB00205212DBC	OGALLALA, PIERRE	100	4,540	01-06-87	52.10
SB00205323ADA	OGALLALA, CHADRON	153	4,718	01-06-87 04-06-87	80.65 79.26

Table 1.--*Water-level record (winter 1986-87)*--Continued

WASHINGTON COUNTY--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
SB00304916DDB	OGALLALA	280	4,200	01-07-87	223.18
SB00305007BAA	OGALLALA	145	4,404	01-07-87	120.55
SB00305036BCC	OGALLALA, PIERRE	325	4,305	01-07-87	222.88
SB00305104BAA1	OGALLALA	138	4,490	01-07-87	97.56
SB00305203DDD1	OGALLALA	44	4,558	01-07-87	32.33
SB00305232CBC1	OGALLALA	167	4,705	01-06-87	110.19
SB00404902CDD1	OGALLALA	178	4,190	01-07-87	168.25
SB00404906CCD1	OGALLALA	154	4,285	01-07-87	132.05
				04-06-87	130.92
SB00404929AAA1	OGALLALA	245	4,265	01-07-87	219.38
SB00405107CDC	OGALLALA	47	4,454	01-07-87	19.80
SB00405114AAA1	OGALLALA	109	4,410	01-07-87	62.83
SB00504917BAB	OGALLALA	170	4,306	01-07-87	138.58
SB00504922DDD1	OGALLALA	140	4,169	01-07-87	117.50
SB00505004DBA1	OGALLALA, PIERRE	120	4,410	01-07-87	61.75
SB00505021BBA1	OGALLALA, WHITE RIVER	66	4,340	01-07-87	24.97
SB00505105ADD1	WHITE RIVER	200	4,530	01-07-87	140.90
SB00505121CCD1	WHITE RIVER	48	4,370	01-07-87	20.75
SC00104903AAB	OGALLALA	220	4,292	01-22-87	209.89
SC00104912DAC1	OGALLALA, PIERRE	400	4,280	01-22-87	196.48
SC00104933ABC1	OGALLALA	---	4,355	01-22-87	170.57
SC00105002ACA1	OGALLALA, PIERRE	307	4,385	01-22-87	230.40
SC00105024CBA	OGALLALA	231	4,414	01-22-87	230.75
SC00105118DCD	OGALLALA	140	4,628	01-23-87	96.23
SC00105222CCB	OGALLALA	182	4,702	01-23-87	120.33
SC00204908ABA1	OGALLALA	175	4,381	01-22-87	166.62
SC00204928ADB1	OGALLALA	241	4,405	01-22-87	175.65
SC00205005DDD	OGALLALA	212	4,487	01-22-87	184.60
SC00205014ABD1	OGALLALA, PIERRE	230	4,440	01-22-87	195.22
SC00205022DDD1	OGALLALA, PIERRE	312	4,470	01-24-87	200.23
SC00205103DAB	OGALLALA, PIERRE	296	4,555	01-23-87	213.54
SC00205105BDC2	OGALLALA	---	4,630	01-23-87	215.55
SC00205107DAB	OGALLALA, PIERRE	278	4,640	01-23-87	223.69
SC00205112DAD	OGALLALA	163	4,533	01-23-87	149.98
SC00205131CCC	OGALLALA, PIERRE	159	4,696	01-23-87	119.79
SC00205201DDD	OGALLALA, PIERRE	342	4,655	01-23-87	226.85

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
	WASHINGTON COUNTY--Continued				
SC00205210AAD	OGALLALA	182	4,698	01-23-87	171.57
SC00205322CBB1	OGALLALA, PIERRE	225	4,940	01-23-87	199.38
SC00304910DCA	OGALLALA, PIERRE	216	4,395	01-24-87	123.46
SC00304927BCD1	OGALLALA, PIERRE	279	4,420	01-24-87	113.27
SC00304931BBB2	OGALLALA	220	4,479	01-24-87	163.29
SC00305011CBB1	OGALLALA, PIERRE	230	4,490	01-24-87	150.19
SC00305114DCC1	OGALLALA	180	4,620	01-23-87	162.33
SC00305204CBD1	OGALLALA	118	4,810	01-23-87	103.63
SC00305320ABA2	OGALLALA	72	4,945	01-23-87	52.10
SC00404916CDD1	OGALLALA, PIERRE	42	4,445	01-24-87	19.95
SC00404924CAA	OGALLALA	49	4,351	01-24-87	30.53
SC00404934DBA	ALLUVIUM, OGALLALA	52	4,401	01-24-87	15.79
SC00405016CCD	OGALLALA	76	4,604	01-23-87	57.04
SC00405031CAD	OGALLALA	68	4,630	01-23-87	56.19
SC00405036CCC	ALLUVIUM, PLEISTOCENE, OGALLALA	35	4,510	01-23-87	19.50
SC00405101BBA	OGALLALA	74	4,618	01-23-87	68.18
SC00405105BAA	OGALLALA	103	4,755	01-23-87	90.85
SC00405216DAA1	OGALLALA	94	4,860	01-23-87	73.97
SC00405235ACB1	OGALLALA	120	4,842	01-23-87	102.90
SC00405313CBB1	OGALLALA	72	4,935	01-23-87	61.65
SC00405333CBA	OGALLALA	113	5,051	01-23-87	102.25
SC00504901DDB	OGALLALA, PIERRE	174	4,405	01-24-87	138.35
SC00504904AAB	OGALLALA	56	4,442	01-23-87	33.54
SC00504910CBC	OGALLALA	107	4,466	01-24-87	95.90
SC00504924BBD	OGALLALA, PIERRE	244	4,430	01-24-87	148.90
SC00505003DBC	ALLUVIUM, PLEISTOCENE, OGALLALA	50	4,554	01-23-87	30.90
SC00505009CCC	ALLUVIUM, PLEISTOCENE, OGALLALA	56	4 584	01-23-87	27.36
SC00505023DCA1	OGALLALA	200	4,625	01-24-87	181.28
SC00505111CCC1	OGALLALA	85	4,710	01-23-87	68.95
SC00505221CCC1	OGALLALA	125	4,945	01-23-87	109.43
SC00505225CCD1	OGALLALA	70	4,790	01-23-87	38.38
SC00505314DAA1	OGALLALA	125	5,020	01-23-87	122.46
SC00505412CDC	OGALLALA	127	5,146	01-23-87	122.32

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
YUMA COUNTY					
SB00104336CAD	OGALLALA, PIERRE	128	3,655	02-06-87	60.76
SB00104504DDB	OGALLALA, PIERRE	340	3,850	02-05-87	70.13
SB00104532ACA	OGALLALA	240	3,860	02-05-87	57.08
SB00104601DDB	OGALLALA, PIERRE	360	3,900	02-05-87	84.69
SB00104605DCD	OGALLALA, PIERRE	271	3,955	02-05-87	83.59
SB00104614CCA	OGALLALA, PIERRE	248	3,915	02-05-87	65.60
SB00104624AAC	OGALLALA, PIERRE	225	3,905	02-05-87	69.90
SB00104626CDA	OGALLALA, PIERRE	306	3,945	02-05-87	79.60
SB00104633DAC	OGALLALA, PIERRE	155	3,975	02-05-87	77.68
SB00104704CAC	OGALLALA, PIERRE	314	4,056	02-05-87	129.35
SB00104705BAC	OGALLALA, PIERRE	340	4,080	02-05-87	150.76
SB00104708DDB	OGALLALA, PIERRE	360	4,070	02-05-87	130.90
SB00104719AAC	OGALLALA, PIERRE	229	4,105	02-05-87	138.52
SB00104736BCB	OGALLALA	147	4,060	02-05-87	120.09
SB00104802BCC	OGALLALA, PIERRE	308	4,145	02-05-87	179.79
SB00104814CAA	OGALLALA	280	4,150	02-05-87	160.35
SB00104816ACA	OGALLALA, PIERRE	340	4,200	02-05-87	201.64
SB00104818DBC	OGALLALA, PIERRE	284	4,210	02-05-87	179.38
SB00204204DDA	OGALLALA, PIERRE	236	3,575	02-15-87	38.37
SB00204208AAC	OGALLALA, PIERRE	249	3,590	02-15-87	41.35
SB00204227AAC	OGALLALA	140	3,542	02-15-87	48.41
SB00204234DDB	OGALLALA	80	3,474	02-15-87	29.78
SB00204305DDB	OGALLALA	284	3,670	02-14-87	46.13
SB00204312ACB	OGALLALA, PIERRE	242	3,615	02-15-87	39.24
SB00204321CCB	OGALLALA, PIERRE	194	3,655	02-15-87	89.88
SB00204401CDB	OGALLALA, PIERRE	310	3,715	02-14-87	59.78
SB00204404BDB	OGALLALA, PIERRE	355	3,760	02-14-87	73.07
SB00204407CBB1	OGALLALA	220	3,780	02-14-87	55.85
SB00204413BBC	OGALLALA	53	3,696	03-03-87	44.94
SB00204520BBB	OGALLALA	---	3,854	02-15-87	72.55
SB00204619CCA	OGALLALA, PIERRE	405	3,955	02-03-87	87.72
SB00204630DCA	OGALLALA	327	3,960	02-03-87	92.82
SB00204705BAB	OGALLALA, PIERRE	383	4,035	02-03-87	153.63
SB00204710CCA	OGALLALA	392	4,010	02-03-87	129.01
SB00204714ABD	OGALLALA, PIERRE	441	3,985	02-03-87	120.69

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
YUMA COUNTY--Continued					
SB00204720BCA	OGALLALA, PIERRE	413	4,050	02-03-87	140.19
SB00204732DDA	OGALLALA, PIERRE	375	4,075	02-05-87	155.89
SB00204735BCA	OGALLALA	420	4,020	02-05-87	117.79
SB00204801DDC	OGALLALA, PIERRE	359	4,075	02-03-87	166.51
SB00204803BBD	OGALLALA, PIERRE	440	4,120	02-03-87	179.40
SB00204813BCC	OGALLALA, PIERRE	390	4,085	02-03-87	151.35
SB00204827CBA	OGALLALA, PIERRE	420	4,165	02-05-87	199.95
SB00304204CDA	OGALLALA, PIERRE	332	3,595	02-15-87	37.90
SB00304209CDB	OGALLALA, PIERRE	330	3,595	02-15-87	25.65
SB00304217ADB	OGALLALA, PIERRE	300	3,600	02-15-87	28.30
SB00304229BAB	OGALLALA	75	3,595	02-15-87	30.28
SB00304231BDD	OGALLALA	92	3,614	02-15-87	49.11
SB00304313ACC	OGALLALA, PIERRE	316	3,630	02-15-87	32.67
SB00304318AAC1	DUNE, OGALLALA	87	3,705	02-14-87	52.09
SB00304324CBD	OGALLALA, PIERRE	310	3,635	02-15-87	36.87
SB00304326DBA	OGALLALA	268	3,640	02-15-87	30.29
SB00304332AAB1	OGALLALA	326	3,680	02-14-87	42.78
SB00304404DDD2	OGALLALA	---	3,745	02-14-87	68.06
SB00304501BCB	OGALLALA	372	3,801	02-14-87	90.04
SB00304502CCA	OGALLALA, PIERRE	345	3,815	02-14-87	98.62
SB00304513BAC	OGALLALA, PIERRE	354	3,800	02-14-87	85.57
SB00304530DDD2	DUNE, OGALLALA	111	3,865	02-14-87	91.90
SB00304604CAC	OGALLALA, PIERRE	335	3,925	02-02-87	139.39
SB00304605BBC	OGALLALA	314	3,945	02-02-87	157.60
SB00304616DAC	OGALLALA, PIERRE	370	3,920	02-02-87	116.95
SB00304617CBD	OGALLALA, PIERRE	372	3,935	02-03-87	126.37
SB00304623BDC	OGALLALA	368	3,905	02-14-87	114.79
SB00304630DDB	OGALLALA	430	3,960	02-03-87	136.65
SB00304701BDC	OGALLALA	370	3,960	02-02-87	156.13
SB00304712DBD	OGALLALA	263	3,965	02-02-87	150.19
SB00304714ACB	OGALLALA, PIERRE	277	3,990	02-02-87	157.39
SB00304717BBD	OGALLALA, PIERRE	355	4,030	02-03-87	173.59
SB00304719CDB	OGALLALA, PIERRE	293	4,050	02-03-87	166.97
SB00304724CCA	OGALLALA	344	3,965	02-03-87	142.35
SB00304735CCA	OGALLALA, PIERRE	320	3,990	02-03-87	137.58

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		YUMA COUNTY--Continued			
SB00304736DBD	OGALLALA, PIERRE	370	3,975	02-03-87	139.67
SB00304824CBD	OGALLALA, PIERRE	274	4,065	02-03-87	168.90
SB00304828ADB	OGALLALA, PIERRE	330	4,115	02-03-87	186.68
SB00304835ABD	OGALLALA, PIERRE	322	4,085	02-03-87	172.02
SB00404217DAC	OGALLALA, PIERRE	385	3,600	02-15-87	33.24
SB00404218CCD	OGALLALA	70	3,634	02-15-87	53.72
SB00404302AAC	OGALLALA	335	3,635	02-15-87	55.41
SB00404314DBB	OGALLALA	62	3,646	02-15-87	49.27
SB00404315CCB	OGALLALA, PIERRE	204	3,655	02-15-87	45.53
SB00404318CAD	OGALLALA	345	3,720	02-15-87	66.15
SB00404327ADB	OGALLALA, PIERRE	365	3,660	02-15-87	61.43
SB00404328CDC	OGALLALA, PIERRE	370	3,660	02-15-87	40.25
SB00404401BCB	OGALLALA, PIERRE	345	3,730	02-15-87	89.03
SB00404414DCD1	OGALLALA, PIERRE	319	3,705	02-15-87	57.26
SB00404417DDA1	DUNE, OGALLALA	100	3,745	02-14-87	73.78
SB00404435DBD	OGALLALA	360	3,725	02-14-87	60.73
SB00404514CCD	OGALLALA	140	3,800	02-14-87	107.46
SB00404517CAD1	OGALLALA	138	3,850	04-06-87	131.62
SB00404611BCD	OGALLALA, PIERRE	333	3,885	02-02-87	168.71
SB00404616CCA	OGALLALA, PIERRE	432	3,895	04-06-87	156.30
SB00404717BBC	OGALLALA, PIERRE	365	3,990	02-02-87	182.85
SB00404801BCC	OGALLALA, PIERRE	385	4,015	02-02-87	198.32
SB00404811BDB	OGALLALA, PIERRE	353	4,030	02-02-87	199.55
SB00504207AAC	OGALLALA, PIERRE	330	3,575	02-15-87	37.49
SB00504218BCC	OGALLALA	65	3,590	02-15-87	39.90
SB00504229CAA	OGALLALA	340	3,600	02-15-87	41.24
SB00504231CCA	OGALLALA, PIERRE	216	3,601	02-15-87	37.00
SB00504303DDB	OGALLALA. PIERRE	175	3,625	02-15-87	49.66
SB00504314ADC	OGALLALA, PIERRE	253	3,625	02-15-87	60.41
SB00504324DDA	OGALLALA, PIERRE	340	3,601	01-15-87	40.02
SB00504403CAA1	OGALLALA	228	3,735	02-15-87	112.82
SB00504406DDD1	DUNE, OGALLALA	132	3,755	03-03-87	122.85
SB00504412ADD1	OGALLALA	197	3,600	02-15-87	88.98
SB00504428BBA1	DUNE, OGALLALA	127	3,735	03-03-87	96.22
SB00504504CCA	OGALLALA, PIERRE	355	3,815	02-14-87	159.40

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		YUMA COUNTY--Continued			
SB00504515CCA	OGALLALA, PIERRE	250	3,805	04-07-87	144.40
SB00504534AAB	OGALLALA	275	3,785	02-14-87	116.79
SB00504622DBC	OGALLALA, PIERRE	387	3,870	02-02-87	170.32
SB00504624CDB	OGALLALA, PIERRE	450	3,850	02-02-87	163.68
SB00504630BDD	OGALLALA, PIERRE	346	3,925	02-02-87	202.65
SB00504633AAB	OGALLALA, PIERRE	386	3,890	02-02-87	181.73
SB00504722BDB	OGALLALA	373	3,979	02-02-87	239.19
SB00504728AAC	OGALLALA, PIERRE	387	3,965	02-02-87	219.15
SB00504732ADC	OGALLALA, PIERRE	385	3,975	02-02-87	218.07
SB00504834DCD	OGALLALA, PIERRE	357	4,042	02-02-87	218.59
SC00104228ADD	OGALLALA, PIERRE	83	3,375	02-23-87	7.10
SC00104303BBB	OGALLALA	278	3,810	02-06-87	191.68
SC00104316CBB	OGALLALA	302	3,805	02-06-87	163.05
SC00104320CCB	OGALLALA	244	3,790	02-06-87	124.38
SC00104321ABA2	OGALLALA	227	3,790	02-06-87	160.97
SC00104411BBC	OGALLALA, PIERRE	383	3,870	02-06-87	174.96
SC00104417CBA	OGALLALA	320	3,955	02-06-87	196.73
SC00104426ABB1	OGALLALA	409	3,870	02-06-87	167.44
SC00104427BBB	OGALLALA, PIERRE	263	3,860	02-06-87	128.66
SC00104430BAD	OGALLALA	331	3,930	02-06-87	150.75
SC00104508BDB	OGALLALA, PIERRE	320	3,900	02-06-87	49.57
SC00104513ABD	OGALLALA	345	3,945	02-06-87	157.45
SC00104516ADB	OGALLALA, PIERRE	370	3,900	02-06-87	74.40
SC00104516BDB	OGALLALA, PIERRE	370	3,905	02-06-87	60.54
SC00104520DDB	OGALLALA	358	3,930	02-06-87	58.88
SC00104522DDB	OGALLALA	286	3,920	02-06-87	78.74
SC00104532BCB	OGALLALA	220	3,965	02-06-87	75.81
SC00104605CDB	OGALLALA	140	4,020	02-25-87	80.33
SC00104702ACA	OGALLALA, PIERRE	155	4,070	02-26-87	107.00
SC00104706CCA	OGALLALA, PIERRE	185	4,170	02-26-87	141.53
SC00104729BCA1	OGALLALA, PIERRE	236	4,160	02-26-87	130.52
SC00104809ACA	OGALLALA	192	4,220	02-26-87	161.71
				04-08-87	161.37
SC00204205DAA	OGALLALA, PIERRE	69	3,415	02-23-87	7.90
SC00204327CBB	OGALLALA	27	3,759	02-23-87	23.73
SC00204417ADA1	OGALLALA, PIERRE	170	3,870	02-06-87	120.34

Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
	YUMA COUNTY--Continued				
SC00204503ACA	OGALLALA	146	3,920	02-06-87	66.69
SC00204510ABD	OGALLALA	111	3,930	02-06-87	56.00
SC00204525CCB1	QUATERNARY, OGALLALA, PIERRE	46	3,925	02-06-87	25.75
SC00204628ADB	OGALLALA	305	4,070	02-27-87	85.07
SC00204703DDA	OGALLALA	270	4,125	02-27-87	103.71
SC00204808ACA	OGALLALA	222	4,270	02-27-87	174.69
SC00204811ACA	OGALLALA, PIERRE	254	4,220	02-27-87	161.03
SC00204828DDC1	DUNE, OGALLALA, PIERRE	214	4,280	02-27-87	152.12
SC00304203CDB	OGALLALA	237	3,759	02-23-87	223.08
SC00304231CCC	OGALLALA	236	3,776	02-23-87	176.45
SC00304234CAB	OGALLALA	276	3,755	02-23-87	209.35
SC00304305ADC	OGALLALA	112	3,660	02-23-87	13.62
SC00304314BAB	OGALLALA	---	3,802	02-23-87	174.60
SC00304328ADC	OGALLALA, PIERRE	293	3,867	02-23-87	207.05
SC00304407AAB	OGALLALA	26	3,739	02-06-87	11.81
SC00304507BBB1	OGALLALA	90	4,010		--
SC00304630CCC1	OGALLALA	67	4,110	02-27-87	48.62
SC00304702CBD1	OGALLALA	147	4,169	02-27-87	104.79
SC00304714CDC1	DUNE, OGALLALA	80	4,165	02-27-87	30.54
SC00304836CBB1	DUNE, OGALLALA, PIERRE	92	4,280	02-27-87	38.35
SC00404232DAC	OGALLALA, PIERRE	90	3,575	02-23-87	34.77
SC00404305ADC	OGALLALA, PIERRE	305	3,890	02-23-87	228.90
SC00404307CCB	OGALLALA, PIERRE	330	3,935	12-07-86	240.70
SC00404310ADB	OGALLALA	285	3,845	02-23-87	210.33
SC00404316BAB	OGALLALA, PIERRE	310	3,880	02-23-87	226.82
SC00404326CBB2	OGALLALA, PIERRE	250	3,825	02-23-87	204.43
SC00404336BBC	OGALLALA, PIERRE	273	3,780	02-23-87	183.19
SC00404336DDC	OGALLALA, PIERRE	225	3,745	02-23-87	163.10
SC00404404DCC	OGALLALA, PIERRE	343	3,985	12-07-86	233.43
SC00404508BDB	OGALLALA	193	4,063	12-07-86	171.43
SC00404511CDD	OGALLALA, PIERRE	345	4,060	12-07-86	230.93
SC00404515CBD	OGALLALA	342	4,075	12-07-86	229.95
SC00404531CBC	OGALLALA, PIERRE	320	4,125	12-07-86	198.23
SC00404532BCA	OGALLALA, PIERRE	320	4,105	12-07-86	205.38
SC00404535BBB	OGALLALA, PIERRE	300	4,045	12-07-86	199.66

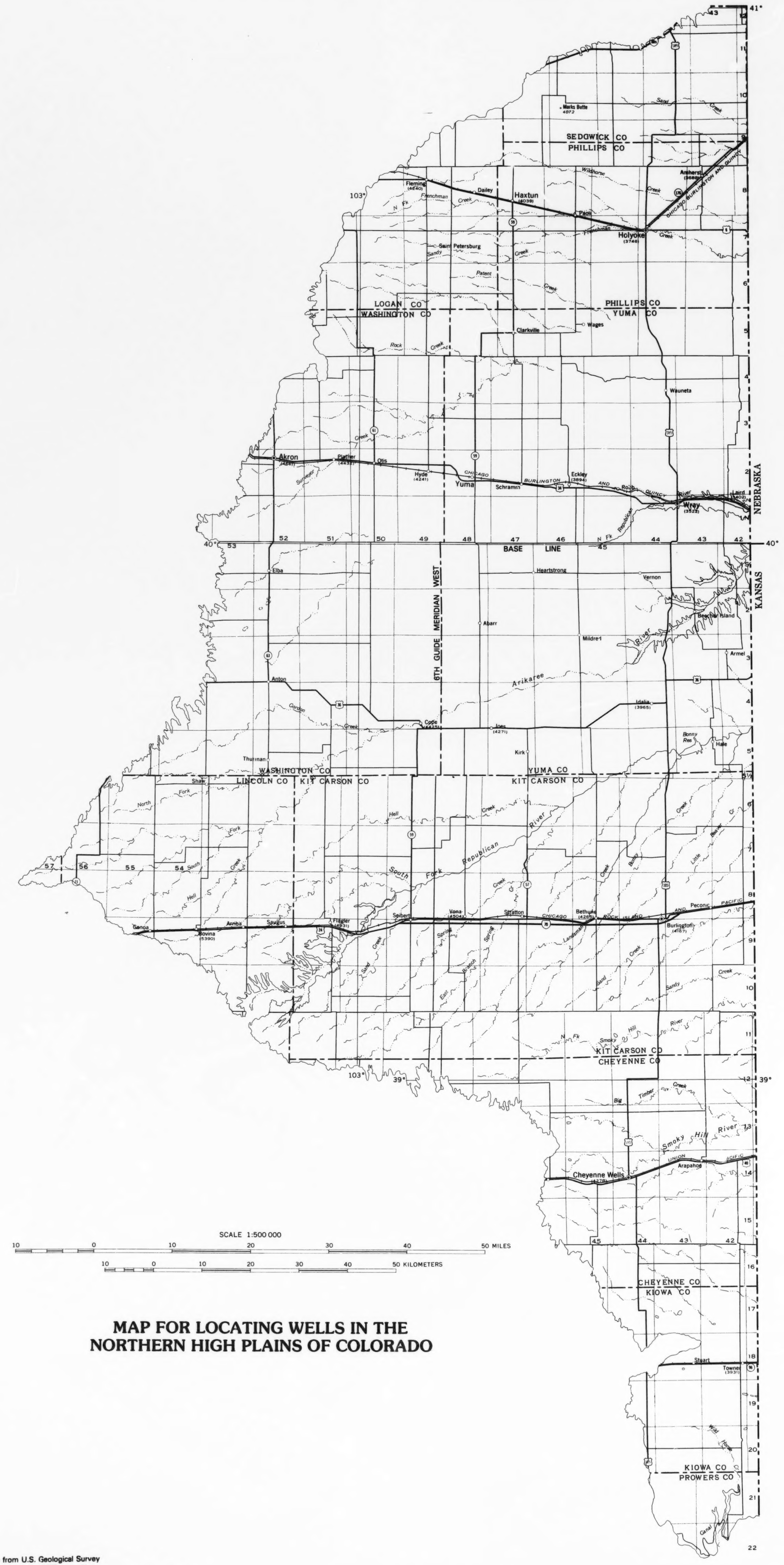
Table 1.--*Water-level record (winter 1986-87)*--Continued

Local well number	Geohydrologic unit	Depth of well	Altitude of land surface	Water-level date	Water level
		YUMA COUNTY--Continued			
SC00404718AAB	OGALLALA	85	4,160	02-27-87	9.23
SC00404719DDB	OGALLALA, PIERRE	240	4,250	12-07-86	110.90
SC00404726BBD	OGALLALA, PIERRE	244	4,165	12-07-86	93.38
SC00404731CAC	OGALLALA, PIERRE	264	4,275	12-07-86	115.89
SC00404827ADD	OGALLALA, PIERRE	210	4,315	12-07-86	123.06
SC00404835DAB	OGALLALA	260	4,298	12-07-86	123.44
SC00504204CBA	OGALLALA, PIERRE	68	3,555	02-23-87	29.07
SC00504208DCC	OGALLALA	62	3,580	12-08-86	18.85
SC00504231AAD	OGALLALA, PIERRE	80	3,640	12-08-86	14.55
SC00504233BBC	OGALLALA, PIERRE	235	3,760	12-08-86	165.10
SC00504314BDC	OGALLALA, PIERRE	90	3,645	12-08-86	35.06
SC00504314CCB	OGALLALA	63	3,651	04-07-87	34.63
SC00504329AAA	OGALLALA, PIERRE	287	3,755	12-08-86	81.95
SC00504409BAB	OGALLALA, PIERRE	260	3,933	12-08-86	174.82
SC00504413CCB	OGALLALA	34	3,722	12-08-86	28.32
SC00504420ADB	OGALLALA, PIERRE	79	3,780	12-08-86	16.73
SC00504425ACC	OGALLALA, PIERRE	95	3,735	12-08-86	39.30
SC00504430BCA	OGALLALA	86	3,814	12-08-86	26.20
SC00504534DDD	OGALLALA, PIERRE	84	3,845	12-08-86	9.80
SC00504605AAC	OGALLALA, PIERRE	274	4,140	12-07-86	118.94
SC00504622ABD	OGALLALA	213	4,105	12-07-86	127.22
SC00504624AAC	OGALLALA, PIERRE	244	4,090	12-07-86	166.62
SC00504632AAC	OGALLALA, PIERRE	170	4,130	12-07-86	99.01
SC00504635CBB	OGALLALA, PIERRE	206	4,085	12-07-86	107.09
SC00504701CBD1	OGALLALA	231	4,175	12-07-86	112.65
SC00504704BCA2	OGALLALA	230	4,240	12-07-86	119.34
SC00504707CDB	OGALLALA, PIERRE	279	4,285	12-06-86	129.65
SC00504714DCB	OGALLALA	240	4,210	12-06-86	116.15
SC00504715BAC	OGALLALA	280	4,230	12-06-86	118.39
SC00504720BAB	OGALLALA, PIERRE	281	4,274	12-06-86	136.81
SC00504732CCA	OGALLALA, PIERRE	220	4,280	12-06-86	127.45
SC00504736BBD	OGALLALA, PIERRE	181	4,195	12-06-86	108.18
SC00504801DCA	OGALLALA, PIERRE	266	4,280	04-08-87	114.61
SC00504804CDB	OGALLALA, PIERRE	234	4,350	12-06-86	139.70
SC00504808CCA	OGALLALA, PIERRE	234	4,380	12-06-86	145.77
SC00504815AAC	OGALLALA, PIERRE	284	4,340	12-06-86	141.42
SC00504821BBD	OGALLALA, PIERRE	295	4,380	12-06-86	148.90
SC00504826CCA	OGALLALA, PIERRE	300	4,340	12-06-86	140.75

Prepared in cooperation with the
COLORADO GEOLOGICAL SURVEY;
COLORADO DIVISION OF WATER RESOURCES, OFFICE OF THE STATE ENGINEER;
COLORADO STATE UNIVERSITY; COLORADO WATER CONSERVATION BOARD;
and the FRENCHMAN, CENTRAL YUMA, SAND HILLS,
MARKS BUTTE, ARIKAREE, EASTERN CHEYENNE, PLAINS, WASHINGTON-YUMA,
and SOUTHERN HIGH PLAINS GROUND-WATER MANAGEMENT DISTRICTS

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 88-178
PLATE 1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PROWERS CO
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BASE LINE
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Marks Butte 4072
Fleming (4240)
Dailey
Haxtun (4039)
Paoli
Holyoke (3746)
Amherst (3688)
CHICAGO BURLINGTON AND QUINCY
Saint Petersburg
Clarkville
Wages
Wauneta
Akron (4661)
Platner (4432)
Otis
Hyde (4241)
Yuma
Schramm
Eckley (3894)
Robb
Laird (3402)
Wray (3522)
Elba
Heartstrong
Vernon
Abarr
Mildred
Beecher Island
Armel
Anton
Cope (4425)
Joes (4271)
Idalia (3965)
Kirk
Thurman
Bonny Res
Hale
Shaw
Genoa
Bovina (5390)
Arriba
Saugus
Flagler (4931)
Seibert
Vona (4504)
Stratton
Bethune (4265)
Burlington (4167)
Peconic
CHICAGO ROCK ISLAND AND PACIFIC
Cheyenne Wells (4278)
Arapahoe
UNION PACIFIC
Stuart
Towner (3931)
Frenchman Creek
Wildhorse Creek
Sand Creek
Sandy Creek
Patent Creek
Rock Creek
Surveyor
Republican
N Fk
Arikaree River
Gordon Creek
North Fork
South Fork Republican River
Hell Creek
Spring Creek
East Branch
Landsman Creek
Bonny Creek
Little Beaver Cr
Sandy Creek
N Fk Smoky Hill River
Big Timber Creek
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MAP FOR LOCATING WELLS IN THE NORTHERN HIGH PLAINS OF COLORADO

Base from U.S. Geological Survey
State base map, 1968